LBT-A17CDM/A27CDM D159CD/D209CD/D220CD

SERVICE MANUAL

US Model

Canadian I

Model

AEP Model
UK Model

Remarks

These systems are composed of following models. As for the service manual, it is issued for each component model, then, please refer to it.

E Model A17CDM/A27CDM

Australian Model

COMPONENT MODEL NAME FOR THESE SYSTEM

	A17CDM	A27CDM D		159CD	D209CD	D220CD	
	E	E	AUS	CND	AEP/UK	AEP/G/UK/EE	US
Compact disc deck	HTC-D159	нтс	-D259	HTC-D159		HTC-D209	HTC-D159
Stereo FM•AM receiver	STR-A17	STF	R-A27	STR-D159		STR-D209	STR-D159
Turntable			-	<u> </u>	PS-LX52F		
Speaker system	9	SS-D17	0			SS-D170	

 Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. **PARTS LIST**

Parts No.

F: FRENCH

EE: East European model CND: Canadian model G: German model AUS: Australian model

anticipated wh	en ordering these items.	
Parts No.	Description	Remarks
1-466-926-11	COMMANDER, STANDARD (RM-S271) (A. COMMANDER, STANDARD (RM-S109)	
1-201-220-11	ANTENNA, LOOP ANTENNA (AEP) CORD, CONNECTION 13P	CDM/D159CD/D220CD)
* 3-376-136-01 * 3-703-713-41 3-707-584-01	COVER, BATTERY (RM-S109) CUSHION (HALF) (HTC-D159) STICKER, SONY SYMBOL (10) (STR) COVER, BATTERY (RM-S271) MANUAL, INSTRUCTION (ENGLISH) (I	D159CD:UK)
3-756-330-31 3-756-330-41 3-756-330-51	MANUAL, INSTRUCTION (ENGLISH) (UMANUAL, INSTRUCTION (ENGLISH, F) MANUAL, INSTRUCTION (ENGLISH, F, EMANUAL, INSTRUCTION (D, NL, S, I) (MANUAL, INSTRUCTION (ENGLISH, F, EMANUAL)	(CND) C, P) (D159CD: AEP) D159CD: AEP)
3-756-331-41 3-756-331-51	MANUAL, INSTRUCTION (ENGLISH) (EMANUAL, INSTRUCTION (ENGLISH, F, EMANUAL, INSTRUCTION (D, NL, S, I) (MANUAL, INSTRUCTION	, P) (D209CD:AEP) D209CD:AEP, G)
3-756-331-71	(ENGLISH, D, POLISH, RU MANUAL, INSTRUCTION (ENGLISH, F, E	SSIAN) (D209CD:EE) , RC) (A27CDM)
* 4-947-532-01 * 4-947-533-01	PLATE (TRANSPORT), LOCK (HTC-D15 SNOW BOX (L) (PS-LX52P) SNOW BOX (R) (PS-LX52P) CUSHION (UPPER) (D209CD)	9/D259)

* 4-956-902-01 CUSHION (LOWER) (D209CD) * 4-956-906-01 INDIVIDUAL, CARTON (D209CD:UK) * 4-957-208-01 CUSHION (SS-D170) * 4-957-529-01 INDIVIDUAL, CARTON (A17CDM) * 4-957-530-01 INDIVIDUAL, CARTON (D159:UK) * 4-957-532-01 INDIVIDUAL, CARTON (A27CDM:AUS) * 4-957-533-01 INDIVIDUAL, CARTON (D220CD) * 4-957-627-01 INDIVIDUAL, CARTON (D159:AEP) * 4-957-628-01 INDIVIDUAL, CARTON (CND) * 4-957-629-01 INDIVIDUAL, CARTON (D209CD: AEP, G) * 4-957-631-01 INDIVIDUAL, CARTON (A27CDM:E) * 4-957-639-01 CUSHION (CND) * 4-958-208-01 CUSHION (A17CDM, D159CD, D220CD) * 4-958-549-01 CUSHION (A27CDM) * 4-960-226-01 INDIVIDUAL, CARTON (D209CD:EE) A-4674-087-A TURN TABLE MAT ASSY (PS-LX52P)

NL: DUTCH

P: PORTUGUESE I: ITALIAN

Description

COMPACT HI-FI STEREO SYSTEM SONY®

S: SWEDISH

RC: CHINESE

E: SPANISH

D: GERMAN

English 93G09069-1D Printed in Japan © 1993.7

* 4-956-901-01 CUSHION (MIDDLE) (D209CD)

STR-A27/D209/D259

SERVICE MANUAL

STR-A27, STR-D209 and STR-259 are the tuner and amplifier section in LBT-A27CDM, LBT-D209CD and LBT-D259CD respectively.



PHOTO: STR-D259

Canadian Model STR-D259 AEP Model UK Model STR-D209/D259 E Model Australian Model

SPECIFICATIONS

Stereo FM-AM receiver

Tuner

System

FM stereo

FM/AM superheterodyne tuner

FM tuner section

Tuning range

87.5 to 108 MHz (EXCEPT EE)

65.0 to 74.0 MHz (EE) 75 ohms unbalanced

Antenna Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

MW:530 to 1710 kHz (Canadian model) 522 to 1611 kHz (Italian model)

531 to 1710 kHz (10 kHz step) (E model) Frequency response

531 to 1602 kHz (Other models)

LW:153 to 279 kHz

SW:5.95 to 17.90 kHz (Mideasten model)

AM loop antenna

External antenna terminal

450 kHz Intermediate frequency

Amplifier

Antenna

DIN power output

30 W + 30 W (6 ohms, at 1 kHz)

Continuous RMS power output

35 W + 35 W (6 ohms, at 1 kHz, 5%

THO

Music power output

60 W + 60 W (6 ohms)

Input	Jack type	Sensitivity	Impedance
VIDEO IN	Phono	300 mV	47 kohms
PHONO IN	Phono	3 mV	47 kohms

Output	Jack type	Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

VIDEO; 15 Hz to 50 kHz +0 dB

General

Mass

Dimensions

Power requirements

Power consumption

220 - 230 V AC, 50/60 Hz(AEP, IT, EE, G)

120 V AC, 60 Hz (CND) 240 V~AC, 50 Hz (UK)

110 - 120 V/220 - 240 V~AC,

50 Hz/60 Hz (E, AUS)

100 W (AEP, AE2, IT, EE, G, UK)

115 W (CND)

170 W (E, AUS, AU2)

Approx. 5.9 kg

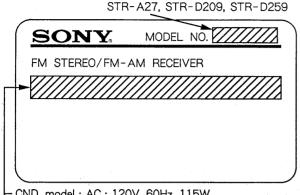
Approx. $355 \times 225 \times 330$ mm (w/h/d, including projections)



TABLE OF CONTENTS

- MODEL IDENTIFICATION -

(Specification Label)



CND model: AC: 120V 60Hz 115W

AEP, IT, EE, G model: AC: 220V-230V~50/60Hz

100W

UK model: AC: 240V~50Hz 100W E, AUS model: AC: 110-120V/220-

240V~50/60Hz 170W

Note: CND : Canadian model

> G : German IT : Italian model

EE : East European model AUS, AU2: Australian model

CAUTION

Be sure to use insulation sheet (A4-959-364-01) when replacing power transformer because it is safely related part.

SAFETY-RELATED COMPONENT WARNING!!

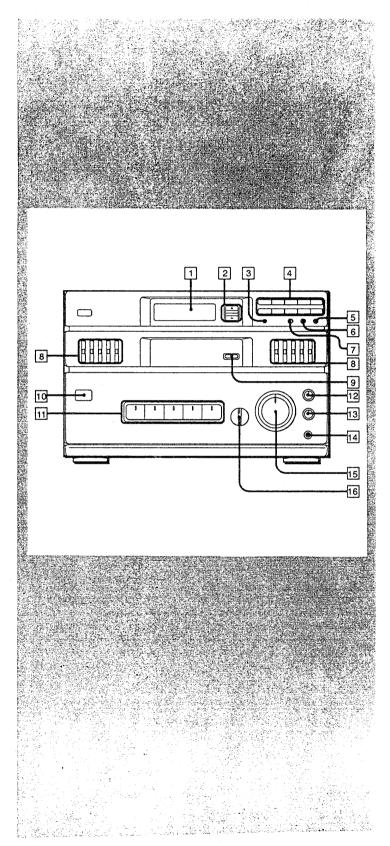
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

Section Title Page 1. GENERAL 3 2. DISASSEMBLY 2-1. Front Panel 4 2-2. Panel Board 4 2-3. Amplifier Board 5 2-4. Main/Tuner Board · · · · · 5 3. ADJUSTMENT 6 4. DIAGRAMS 4-1. Schematic Diagram — Tuner Section — 7 4-2. Printed Wiring Board - Main Section - · · · · 11 4-3. Schematic Diagram — Main Section — 15 4-4. Schematic Diagram — Display Section — · · · · 19 4-5. Printed Wiring Board — Display Section — ... 23 4-6. Circuit Boards Location · · · · 26 4-7. Semiconductor Lead Layouts 26 5. EXPRODED VIEWS 5-2. Back Panel Section · · · · 29 6. ELECTRICAL PARTS LIST 30

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 **GENERAL**



This section is extracted from instruction manual.



Refer to the pages indicated in parentheses for details.

Tuner

- 1 Display window
- 2 DUAL MODE TUNING +/- buttons (20, 22)
- 3 MEMORY button (22)
- 4 Numeric buttons (22) 5 SHIFT button (22)
- 6 BAND SELECT button (20)
 7 ST/MUTE button (20,22)

Graphic Equalizer

- 8 5 BAND GRAPHIC EQUALIZER controls (16)

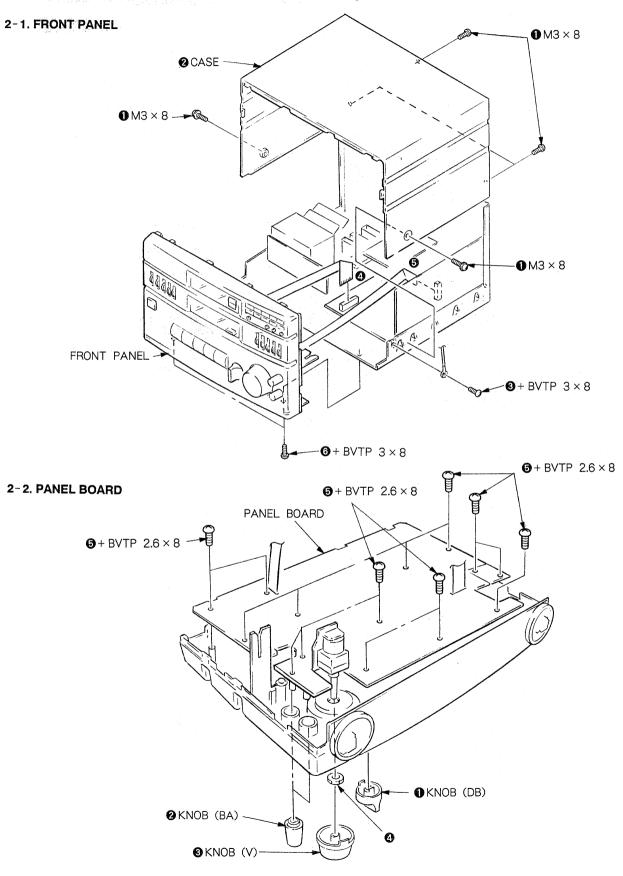
 9 EQUALIZER switch (16)

Amplifier

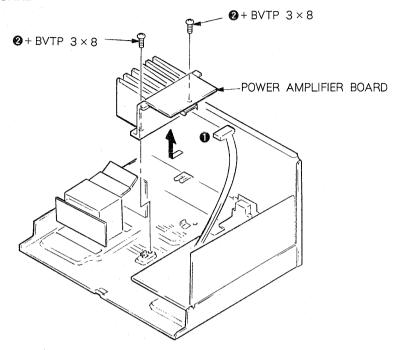
- 10 SYSTEM POWER button (14)
- 11 Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)
- 12 BALANCE control (16)
- 3 SURROUND control (16)
- 14 HEADPHONES jack
- S VOLUME control and indicator (16)
- 16 DBFB (dynamic bass feedback) control (16)

SECTION 2 DISASSEMBLY

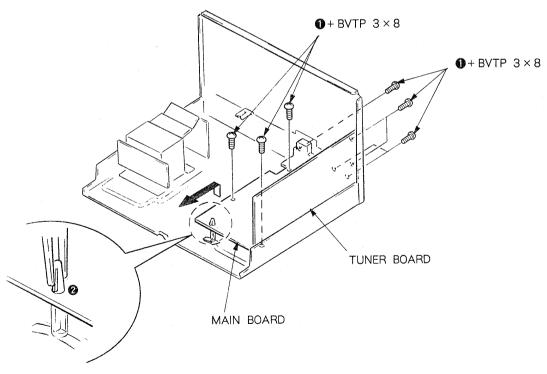
NOTE: Follow the disassembly procedure in the numerical order given.



2-3. POWER AMPLIFIER BOARD



2-4. MAIN /TUNER BOARD



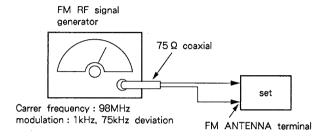
SECTION 3 ADJUSTMENTS

Note: As a front-end (FE301) is difficult to repair if faulty, replace it with new one.

TUNER SECTION

FM SECTION ADJUSTMENTS

Setting:



• TUNER OUT CHECK POINT

Speaker out receive 98MHz 60dB μ (1mV) and set the SPEAKER out to 10dBs by VOLUME.

Speaker load: 6Ω both CH

FM NULL Adjustment

Procedure:

- 1. Supply a 60dB μ (1mV) 98MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz.
- 3. Adjust T301 for 0V reading on the measurement point.

FM Tuned Indication Lighting Level Adjustment

Band: FM

ST/MUTE SW: OFF

Procedure:

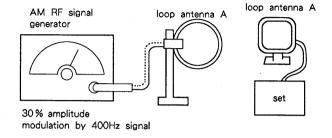
- 1. Supply a 24 \pm 1 μ V (20 \pm 4dB μ (EE)) (25 \pm 4dB μ (EXCEPT EE)) 98MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz.
- 3. Adjust RV302 so that the FL601 TUNED light up.

Adjustment Location: main board

 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by trimmer capacitors.

AM SECTION ADJUSTMENT

Setting:



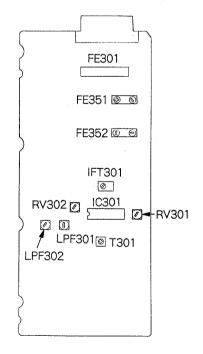
AM Tuned Indication Lighting Level Adjustment

Band: AM

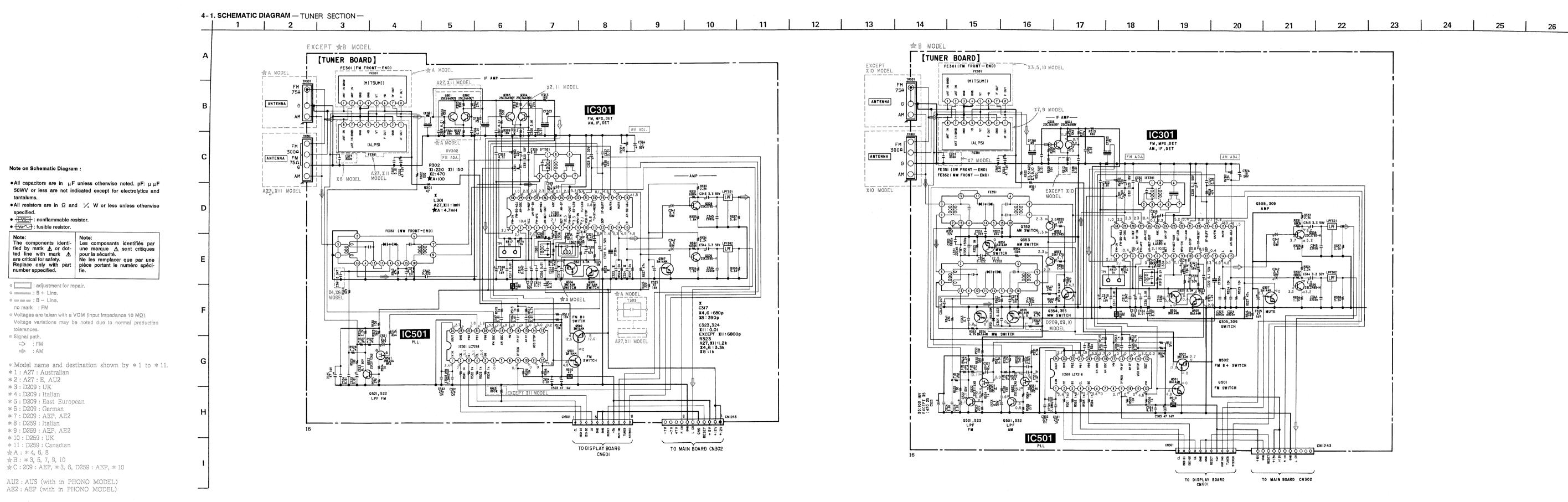
Procedure:

- 1. Set loop antenna input level to $94 {\rm dB} \mu/{\rm m}$, 1050 kHz and no signal tuned light should not on.
- 2. Ture the set to 1050kHz
- 3. Adjust RV301 so that the FL601 TUNED light up.

Adjustment Location: tuner board



SECTION 4 DIAGRAMS



Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D351 (B) D1201	E-6 E-19 F-15	1C1306 1C1601	C-12 J-19
D1202 D1203 D1204 D1205 D1205 D1251 D1302 D1303 D1304 D1305 D1306 D1307 D1309 D1311 D1316 D1317 D1318 D1319 D1321 D1322 D1323 D1324 D1347 D1354 D1355 D1368 D1369 D1370 IC301 (E) IC301 (B) IC501 (E) IC501 (E) IC501 (E) IC501 (E) IC501 (E)	E-15 E-15 G-15 G-15 G-12 E-12 E-12 E-12 E-13 J-23 I-24 H-12 D-13 D-13 I-14 D-13 I-14 J-16 B-25 D-14 D-13 J-24 G-7 E-9 D-11 G-11	0301 (E) 0302 (E) 0303 (E) 0303 (E) 0303 (B) 0304 (E) 0304 (B) 0305 (E) 0305 (B) 0306 (E) 0307 (E) 0307 (B) 0308 (E) 0309 (E) 0309 (E) 0309 (E) 0309 (E) 0309 (E) 0309 (E) 0301 (B) 0352 (B) 0353 (B) 0354 (B) 0355 (B) 0355 (B) 0356 (B) 0352 (E) 0502 (E) 0502 (B) 0521 (E) 0522 (E) 0522 (B) 0531 (B) 01201 01202 01203	D-3 D-3 D-3 E-3 E-7 E-7 I-3 I-7 I-7 H-9 H-4 H-9 H-4 H-9 F-1 E-7 F-6 C-9 B-9 B-9 C-118 B-18 B-18 B-18 B-18 B-18 B-18 B-18
101201 101202 101302 101303 101304	F-20 F-15 J-12 I-14 H-13	01204 01251 01301 01302 01304 01305	H-15 G-19 J-23 J-13 I-15 I-15
IC301 (B) IC501 (E) IC501 (B) IC1001 IC1002 IC1003 IC1201 IC1202 IC1302 IC1302	G-7 E-4 E-9 D-11 G-11 I-11 F-20 F-15 J-12 I-14	0522 (B) 0531 (B) 0532 (B) 01201 01202 01203 01204 01251 01301 01302 01304	B-9 D-8 C-9 E-19 H-18 H-18 G-19 J-23 J-13

(B): ★B

Note on Mounting Diagram:

(E): EXCEPT ★ B

• O : Parts extracted from the component side.

• ********* : Pattern on the side which is seen.

• Model name and destination shown by *1 to *11. * 1 : A27 : Australian * 2 : A27 : E, AU2

* 3 : D209 : UK * 4 : D209 : Italian

*5: D209: East European *6: D209: German

* 7 : D209 : AEP, AE2 * 8 : D259 : Italian

* 9 : D259 : AEP, AE2 . * 10 : D259 : UK

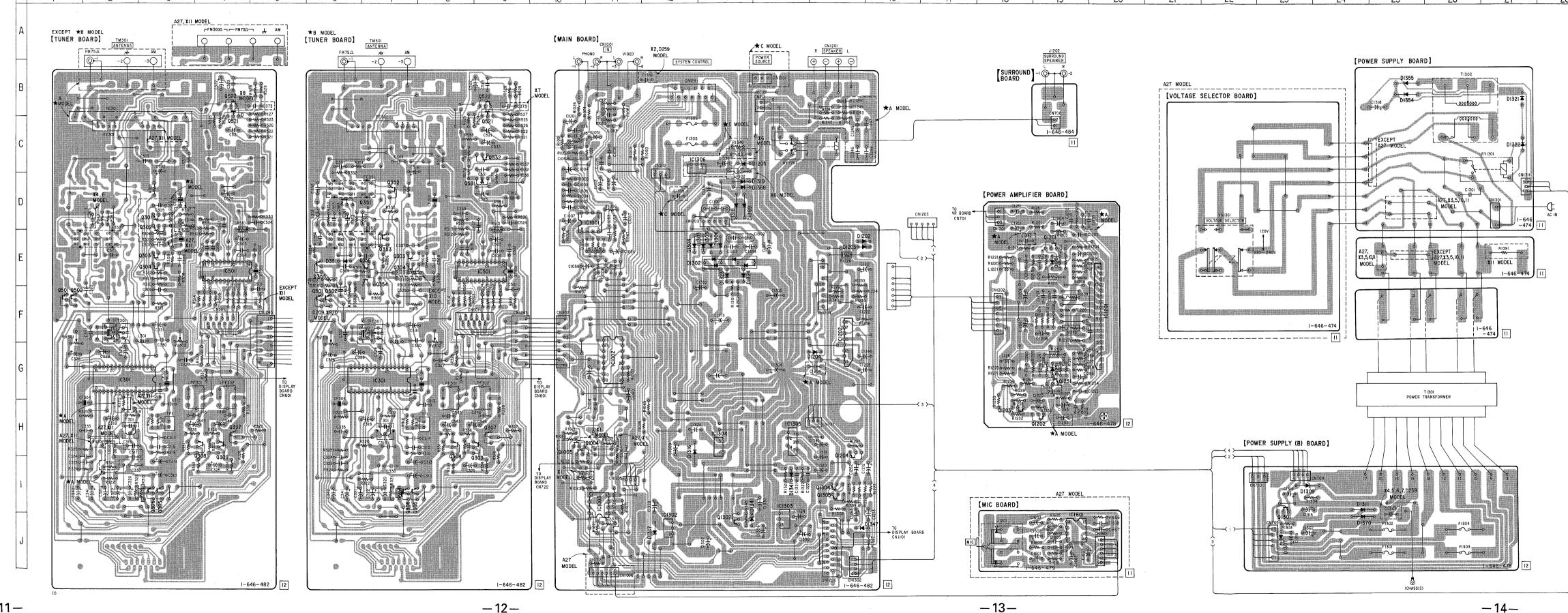
* 11 : D259 : Canadian $\bigstar A: *4, 6, 8$

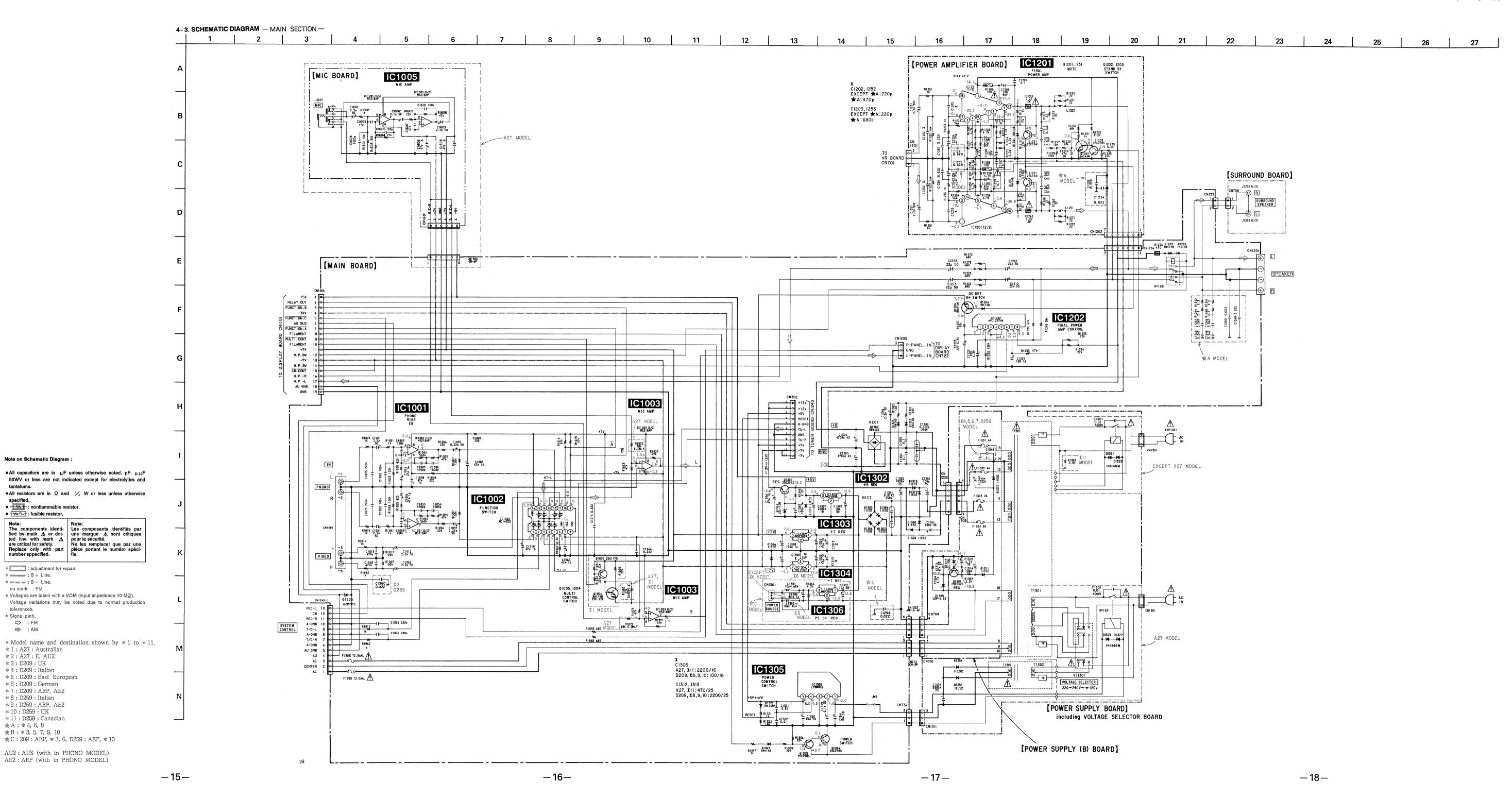
 $\star B: \star 3, 5, 7, 9, 10$

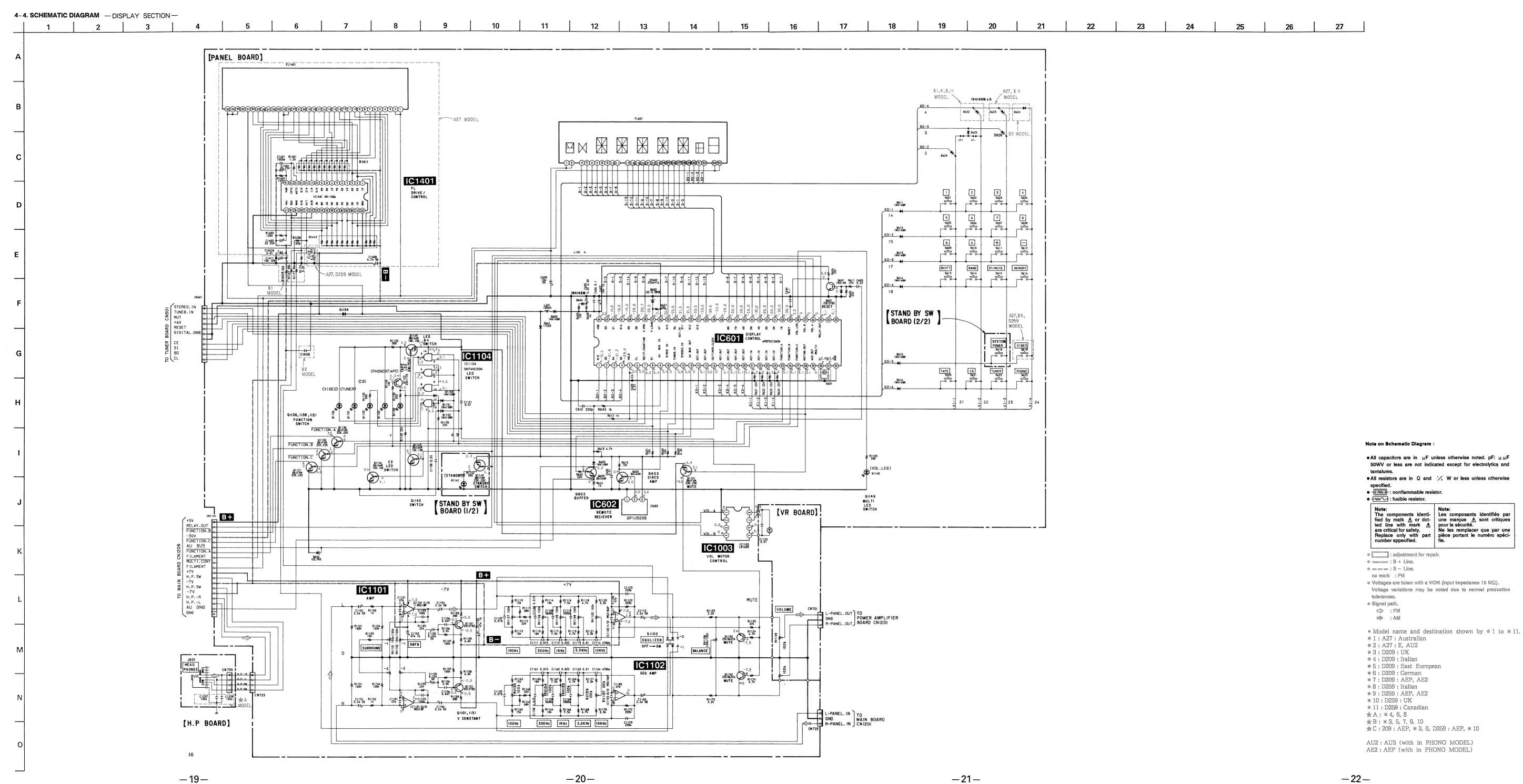
★C: 209: AEP, *3, 6, D259: AEP, *10

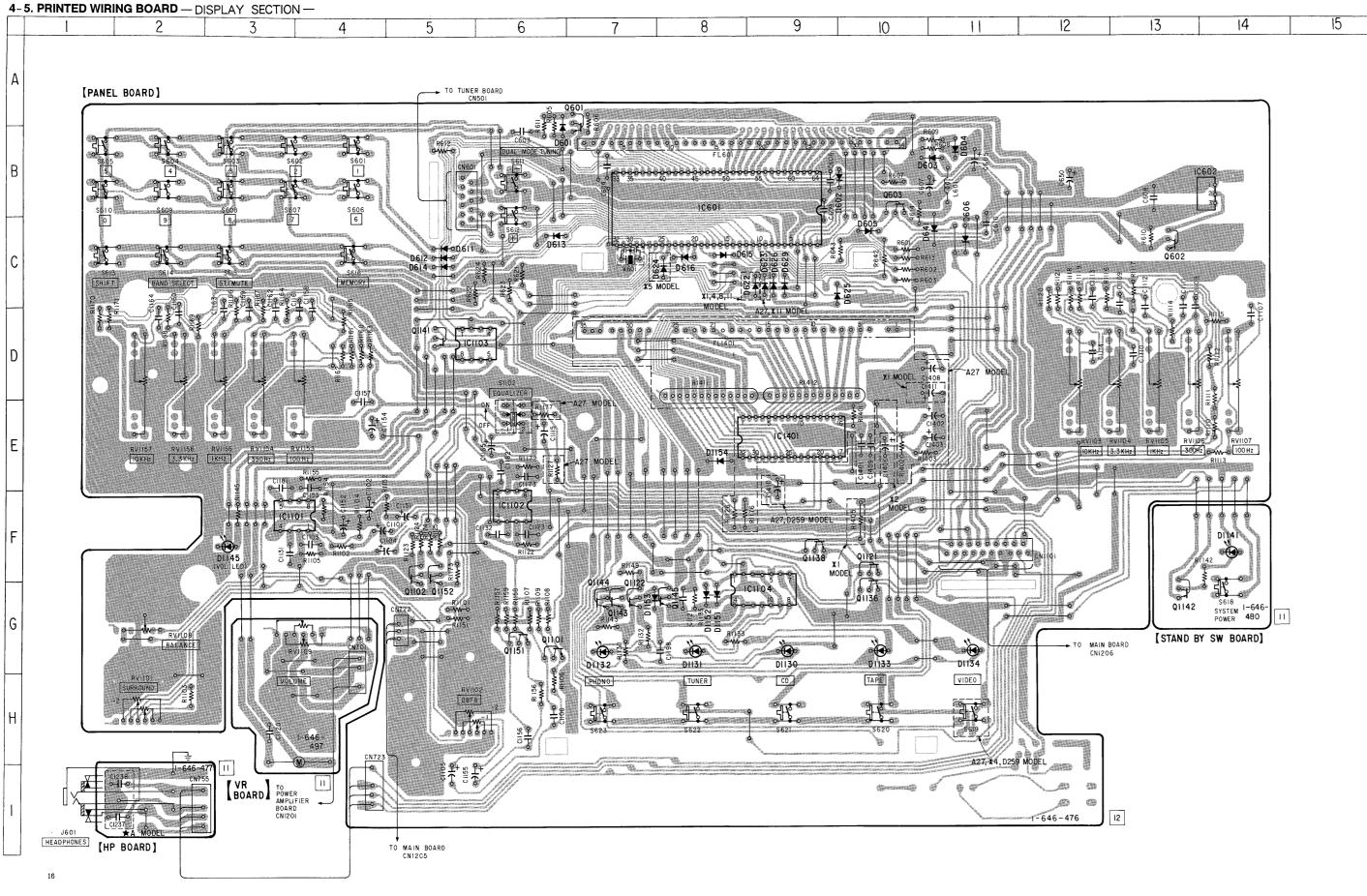
AU2: AUS (with in PHONO MODEL) AE2: AEP (with in PHONO MODEL)

4-2. PRINTED WIRING BOARD — MAIN SECTION —









 Semicono 	ductor	l ocation
Semicono	auctor	Location

Semiconductor Location									
Ref. No.	Location	Ref. No.	Location						
D601 D602 D603	B-6 B-9 B-10	D1153 D1154	G-7 E-8						
D604 D605 D606 D611 D612 D613 D614 D615	B-11 C-10 B-11 C-5 C-5 C-6 C-5 C-8	IC601 IC602 IC1101 IC1102 IC1103 IC1104 IC1401	B-8 B-13 F-3 F-6 D-5 G-8 E-9						
D616 D622 D623 D624 D625 D626 D629 D641 D1130 D1131 D1132 D1133 D1134 D1141 D1145 D1151	C-6 C-8 C-9 C-9 C-9 C-19 G-11 F-14 F-3 G-8	0601 0602 0603 01101 01102 01121 01122 01136 01138 01141 01142 01143 01144 01145 01151	A-6 C-13 B-10 G-6 G-5 F-10 F-7 G-13 G-7 F-7 G-8 G-6 G-5						

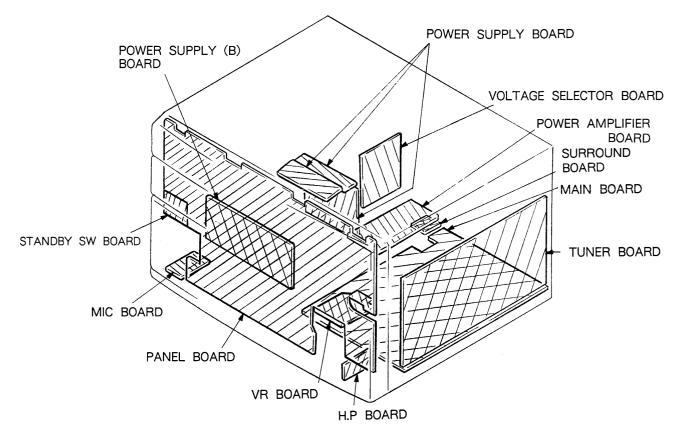
Note on Mounting Diagram:

- O : Parts extracted from the component side.
- Pattern on the side which is seen.
- Model name and destination shown by *1 to *11. *1: A27: Australian
- * 2 : A27 : E, AU2
- *3:D209:UK
- * 4 : D209 : Italian * 5 : D209 : East European
- * 6 : D209 : German
- *7:D209:AEP, AE2
- *8: D259: Italian
- * 9 : D259 : AEP, AE2
- * 10 : D259 : UK
- * 11 : D259 : Canadian
- ★A: *4, 6, 8
- \star B: *3, 5, 7, 9, 10
- ★C: 209: AEP, *3, 6, D259: AEP, *10

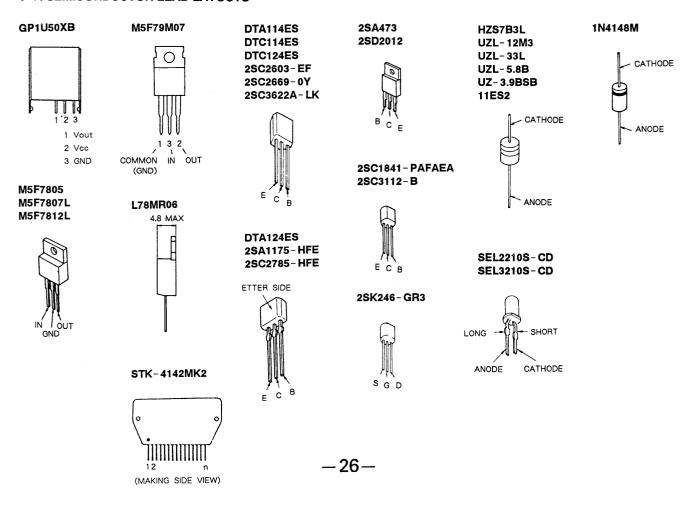
AU2: AUS (with in PHONO MODEL)

AE2: AEP (with in PHONO MODEL)

4-6. CIRCUIT BOARDS LOCATION



4-7. SEMICONDUCTOR LEAD LAYOUTS



SECTION 5 EXPLODED VIEWS

NOTE:

- - XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE)...(RED)

1 1 Parts color Cabinet's color

4-955-741-21 BUTTON (PR) (*2, D259)

A-4356-640-A PANEL BOARD, COMPLETE (*1)

4-955-745-01 BUTTON (ST)

1-646-497-11 VR BOARD

13

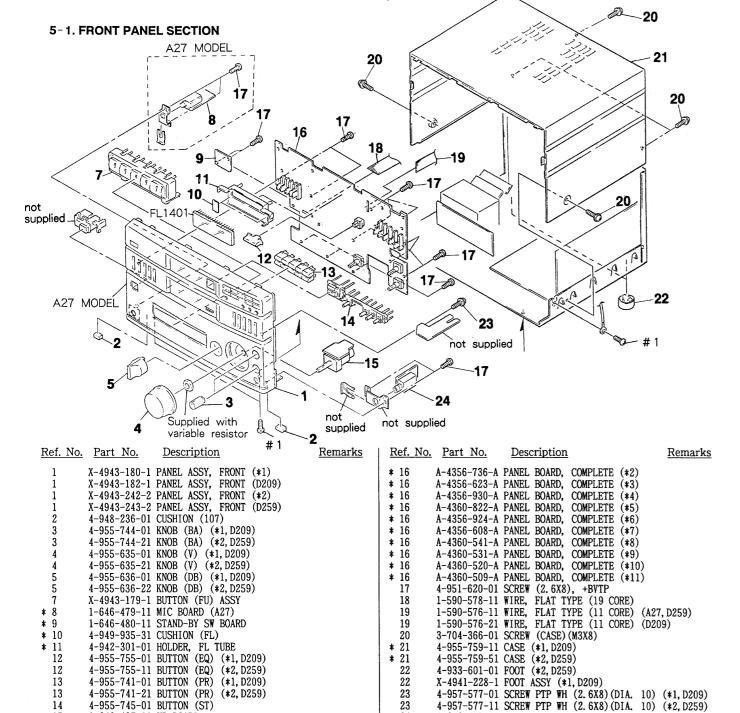
14 * 15

* 16

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- Model name and destination * 10 : D259 : UK shown by *1 to *11. * 11 : D259 : Canadian * 1 : A27 : Australian A: *4, 6, 8★B: *3, 5, 7, 9, 10 ★C: 209: AEP, *3, 6, * 2 : A27 : E. AU2 *3:D209:UK * 4 : D209 : Italian D259 : AEP, * 10 *5: D209: East European

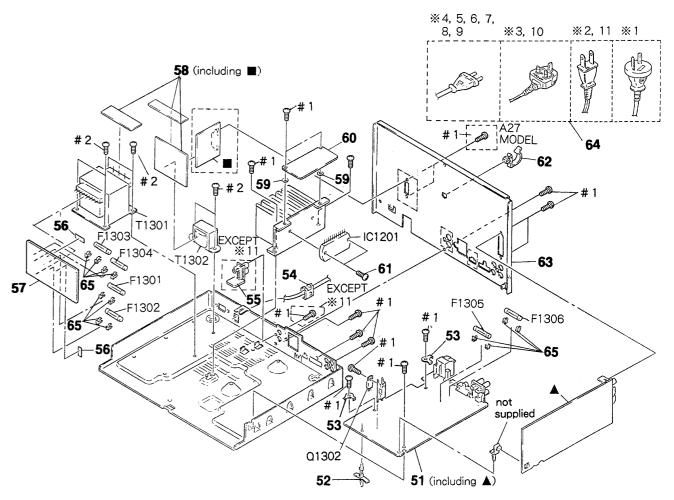
*8: D259: Italian

AU2: AUS (with in * 6 : D209 : German PHONO MODEL) *7: D209: AEP. AE2 AE2: AEP (with in PHONO MODEL) *9:D259:AEP, AE2



5-2. BACK PANEL SECTION

▲: TUNER BOARD ■: VOLTAGE SELECTOR BOARD



CAUTION

Be sure to use insulation sheet ($\triangle 4-959-364-01$) when replacing power transformer because it is safely related

23

23

1-646-477-11 H. P BOARD

FL1401 1-519-648-21 INDUCTOR TUBE, FLUORENSCENT (A27)

Ref. No.	Part No.	Description	<u>Remarks</u>	Ref. No.	Part No.	Description	<u>1</u>	Remarks
* 51 * 51 * 51 * 51 * 51	A-4356-742-A A-4356-630-A A-4356-933-A	MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE	(*2) (*3) (*4)	* 63 * 63 * 63 * 63	4-955-778-91 4-955-778-11 4-955-778-81 4-955-824-31 4-955-824-11	PANEL, BACK PANEL, BACK PANEL, BACK	(D209:AEP) (D209:AE2) (*8)	
* 51 * 51 * 51 * 51 * 51	A-4356-618-A A-4356-928-A A-4360-543-A	MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE	(D209:AEP) (D209:AE2) (*8)	* 63 * 63 * 63 \$\triangle 64	4-955-824-81 4-955-824-21 4-955-824-51 1-696-848-21 1-690-608-11	PANEL, BACK PANEL, BACK CORD, POWER	(*10) (*11) (*1)	
* 51 * 51 * 51 * 52 * 53	A-4360-523-A A-4360-511-A 4-954-051-51	MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE HOLDER, PC BOARD PLATE, GROUND	(*10)	△64 △64 △64 △64 65	1-575-653-11 1-696-570-21 1-575-651-11 1-690-609-21 1-533-217-31	CORD, POWER CORD, POWER	(*3, 10) (*4, , 5, 6, 7, 8, 9) (*11)	
* 54 * 54 * 55 * 56 * 57	3-703-571-11 1-646-484-11 3-701-946-26	BUSHING (2104), CORD BUSHING (5) (4516), C SURROUND BOARD (EXCE LABEL (4A125V), FUSE POWER SUPPLY (B) BOA	ORD (A27:E) PT *11) (*11)	▲ F1301 ▲ F1302	1-533-213-11 1-532-350-00 1-576-108-11 1-532-350-00 1-576-108-11	FUSE 4A (A27 FUSE 4A (*8, FUSE 4A (A27	7, D209, *9, 10) 11) 7, D209, *9, 10)	
* 58 59 59 * 60 * 60	3-330-034-01 3-564-542-00 A-4356-649-A	POWER SUPPLY BOARD WASHER (*2,D259) WASHER, FIBER (D209) POWER AMPLIFIER BOAR POWER AMPLIFIER BOAR	D, COMPLETE (*1)	▲F1303 ▲F1303 ▲F1304	1-576-104-11 1-532-203-00	FUSE 2. 5A (A FUSE 2A (A FUSE 2A (I	0209, *9, 10) 027, D209, *9, 10) 88) 0209, *9, 10) 027, D209, *9, 10)	
* 60 * 60 * 60 * 60	A-4356-935-A A-4356-616-A A-4360-546-A	POWER AMPLIFIER BOAR POWER AMPLIFIER BOAR POWER AMPLIFIER BOAR POWER AMPLIFIER BOAR	D, COMPLETE (*4,6) D, COMPLETE (*5,7) D, COMPLETE (*8)	▲F1305 ▲F1305 ▲F1306	1-576-105-11	FUSE 2. 5A (1) FUSE 2. 5A (1) FUSE 2. 5A (1)	A27, D209, *9, 10)	
* 60 * 60 61 * 62 * 63	A-4360-516-A 4-928-635-11 4-949-235-01	POWER AMPLIFIER BOAR POWER AMPLIFIER BOAR SCREW, +BV (2.6X16) HOOK (*2,4,5,6,7,9,1 PANEL, BACK (*1)	D, COMPLETE (*11) TAPPING 1)	IC1201 Q1302 ▲T1301	8-749-900-24 8-749-900-96 8-729-209-15 1-423-438-11 1-423-438-21	IC STK-41621 TRANSISTOR TRANSFORMER,	MK2 (D209, *8, 9, 10) 2SD2012 POWER (*1)	
* 63 * 63 * 63 * 63	4-955-824-91 4-955-824-61 4-955-778-21 4-955-778-31 4-955-778-41	PANEL, BACK (A27:E) PANEL, BACK (A27:AU2 PANEL, BACK (*3) PANEL, BACK (*4) PANEL, BACK (*5))	▲T1301 ▲T1301 ▲T1302	1-423-437-21 1-423-431-11	TRANSFORMER, TRANSFORMER, TRANSFORMER,	POWER (EXCEPT *11)
				•				

Note:
The components identified by mark extstyle exts

Note: Les composants identifiés par une marque $extstyle{ }$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spéci-fié.

SECTION 6 **ELECTRICAL PARTS LIST**

- Model name and destination shown
- by *1 to *11. *1: A27: Australian *2: A27: E, AU2
- *3:D209:UK * 4 : D209 : Italian
- *5:D209:East European
- *6: D209: German *7: D209: AEP, AE2
- *8: D259: Italian
- *9:D259:AEP, AE2
- * 10 : D259 : UK * 11 : D259 : Canadian
- ★A: *4, 6, 8 ★B: *3, 5, 7, 9, 10
- ★C: 209: AEP, *3, 6, D259: AEP, *10

AU2: AUS (with in PHONO MODEL) AE2: AEP (with in PHONO MODEL)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: metal-film resistor METAL OXIDE: Metal Oxide-film

F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

In each case, $u: \mu$, for example: $uA...: \mu A..., uPA..., \mu PA...$ uPB..., $\mu PB...$, uPC..., $\mu PC...$, uPD..., μPD...

- CAPACITORS:
 - $uF: \mu F$ COILS
- uH: μH

Pof No	Part No.	Description	Remarks	Ref No	Part No.	Description	1		Remarks
			remarks	1101. 110.	1411 110.		-		remarks
*	A-4356-650-A	MAIN BOARD, COMPLETE (*1)				< CAPACITOR	>		

*	A-4356-742-A	MAIN BOARD, COMPLETE (*2)			1-161-379-00		0. 01uF		25V (★:A)
		******			1-124-477-11		47uF	20%	25V
*	A-4356-630-A	MAIN BOARD, COMPLETE (*3)			1-161-379-00		0. 01uF	20%	
		******			1-161-379-00		0. 01uF		25V (★:A)
*	A-4356-933-A	MAIN BOARD, COMPLETE (*4)		C306	1-161-379-00	CERAMIC	0.01uF	20%	25V (★:A)
		******				ATD 1117		000	
*	A-4360-821-A	MAIN BOARD, COMPLETE (*5)		C307	1-161-379-00	CERAMIC	0. 01uF	20%	
		*******			1 101 070 00	0DD 1117.0			(EXCEPT *1)
*	A-4356-926-A	MAIN BOARD, COMPLETE (*6)		C308	1-161-379-00	CERAMIC	0.01uF	20%	
		*******	. 1	0000	1 101 070 00	CDDINIC	0.01.0		(EXCEPT *1)
*	A-4356-618-A	MAIN BOARD, COMPLETE (D209: AEP	·		1-161-379-00		0. 01uF	20%	
		*******************			1-124-477-11		47uF	20%	
*	A-4356-928-A	MAIN BOARD, COMPLETE (D209:AE2			1-161-379-00		0. 01uF	20%	25V
		**************************************	*		1-101-006-00		0. 047uF	000/	50V
*	A-4360-543-A	MAIN BOARD, COMPLETE (*8)		C313	1-123-382-00	ELECT	3. 3uF	20%	100V
		******		0014		00011110		000/	
*	A-4360-534-A	MAIN BOARD, COMPLETE (D259: AEP			1-161-379-00		0. 01uF	20%	
		******************	1		1-161-329-00		0.0068uF	30%	
*	A-4360-538-A	MAIN BOARD, COMPLETE (D259: AE2		C316	1-162-282-31		100PF		50V
	=	**************************************	*		1-162-292-31	-	680PF		50V (*4, 6)
*	A-4360-523-A	MAIN BOARD, COMPLETE (*10)		C317	1-162-289-31	CERAMIC	390PF	10%	50V (*8)
	4 4000 511 4	**************************************		0010	1 104 000 11	DI DOT	1. 5	0.00/	F01/
*	A-436U-511-A	MAIN BOARD, COMPLETE (*11)			1-124-903-11		luF	20%	
		*******		C320 C321	1-124-903-11 1-124-902-00		luF	20%	50V 50V
	1 040 404 11	CUDDOUND DOADD (EVCEDT +11)					0. 47uF		
*	1-646-484-11	SURROUND BOARD (EXCEPT *11)		C322 C323	1-124-463-00		0. 1uF		50V 16V
		********		C323	1-161-329-00	CERAMIC	0.0068uF		a contract of the contract of
	1 500 010 11	HOLDED FILE (+9 D9E0)		C323	1-161-379-00	CEDANIC	0. 01uF		EXCEPT *11) 25V (*11)
*		HOLDER, FUSE (*2, D259)			1-161-379-00				25V (*11) 16V
*		HOLDER, FUSE (*2, D259)		C324	1-161-329-00	CERAMIC	0.0068uF		
		HOLDER, FUSE (*1, D209)		C204	1 161 270 00	CEDANIC	0. 01uF		(EXCEPT *11) 25V (*11)
*		FUSE HOLDER (*2, D259)			1-161-379-00				
*	4-942-204-01	PLATE, GROUND		C325 C326	1-124-477-11		47uF 10uF	20%	
	7 605 646 70	CCDEW DUTD 9VO TVDE9 N C	(+6)	C325 C327	1-124-907-11			20%	50V 25V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	(+0)		1-161-379-00 1-124-463-00		0. 01uF 0. 1uF		25V 50V
			ļ	C328	1-124-403-00	ELECI	v. iur	∠∪76	9UY
			J						

Note:

The components identified by mark $\hat{\Lambda}$ or dotted line with mark $\hat{\Lambda}$ are critical for safety. Replace only with part number specified. Note:

Les composants identifiés par une marque $ilde{\Lambda}$ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

		5			Damanira I	Dof No	Part No.	Description			Remarks
Ref. No.		Description	•		Remarks		_		-	10%	
	1-124-927-11			20%	1	C1013	1-162-290-31	CERAMIC	470PF	10%	201
	1-161-379-00 1-126-176-11				25V 10V	C1014	1-161-494-00	CERAMIC	0. 022uF		25V
	1-126-176-11				25V		1-162-286-31				50V
C332 C335	1-161-379-00				25V		1-162-286-31				50 V
Cooo	1-101-313.00	CERAMIC	0. 01ui	20/0	201		1-124-925-11				100V
C336	1-161-379-00	CERAMIC	0. 01uF	20%	25V		1-162-282-31		100PF	10%	50 V
C339	1-162-210-31		30PF		50V (★:B)						
C341	1-123-382-00		3. 3uF		100V	C1053	1-162-282-31	CERAMIC	100PF		50 V
C342	1-123-382-00		3. 3uF	20%	100V	C1054	1-124-477-11	ELECT	47uF		25V
C343	1-123-382-00		3. 3uF	20%	100V	C1055	1-161-377-00	CERAMIC	** * * * * * * * * * * * * * * * * * * *		16V
							1-161-374-11				50 V
C344	1-123-382-00	ELECT	3. 3uF		100V	C1057	1-124-464-11	ELECT	0. 22uF	20%	50 V
C345	1-161-375-00		0.0022uF		50V						
C346	1-161-375-00		0. 0022uF	20%	50V		1-124-477-11		47uF		25V
C351	1-161-494-00		0. 022uF		25V (★:B)		1-124-477-11		47uF		25V
C352	1-102-120-00	CERAMIC	0. 0018uF	10%	50V (★:B)		1-124-925-11				100V
					() ->		1-162-290-31			10%	50V
C353	1-161-374-11		0. 0015uF	20%	50V (★:B)	C1064	1-161-494-00	CERAMIC	0. 022uF		25V
C354	1-161-494-00		0. 022uF		25V (★:B)	01075	1 100 000 01	CEDANIC	22000	10%	50V
C361	1-164-098-11		0. 047uF	0.00/	12V		1-162-286-31 1-162-286-31		220PF 220PF		50V
C361	1-161-379-00		0. 01uF	20%	25V (*4, 6)		1-102-200-31		22uF		63V
C362	1-161-494-00	CERAMIC	0. 022uF		25V		1-124-916-11		22uF		63V
0000	1 104 150 11	CEDANIC	0 10		50V (★:B)		1-124-910-11		100uF	20%	
C363	1-164-159-11 1-161-494-00		0. 1uF 0. 022uF		25V (★:B)	C1221	1-120-101-11	LLICI	10001	20%	101
C364 C371	1-161-494-00		8. 2PF	10%		C1222	1-126-176-11	ELECT	220uF	20%	10 V
(3/1	1-102-190-31	CERAMIC	0. 211		EXCEPT ★:B)		1-126-176-11		220uF		10V
C371	1-162-196-31	CERAMIC	5. 6PF		50V (★:B)		1-101-006-00		0. 047uF		50V (★:A)
C373	1-162-288-31		330PF	10%	50V (*7, *8)		1-101-006-00		0. 047uF		50V (★:A)
C501	1-102-961-00		27PF	5%	50V	C1247	1-101-006-00	CERAMIC	0.047uF		50V (★:A)
C502	1-102-961-00		27PF	5%	50V						
C503	1-124-477-11		47uF	20%	25V	C1248	1-101-006-00	CERAMIC	0. 047uF		50V (★:A)
						C1249	1-161-494-00	CERAMIC	0. 022uF		25V (★:A)
C504	1-161-379-00		0. 01uF	20%	25V		1-161-494-00		0. 022uF		25V (★:A)
C505	1-161-379-00		0.01uF	20%	25V		1-124-916-11		22uF	20%	63V
C506	1-161-379-00		0. 01uF	20%	25V	C1263	1-124-916-11	ELECT	22uF	20%	63V
C507	1-161-379-00		0. 01uF	20%	25V	01004	1 101 101 00	appinia	0.000.10		OFW (A.A)
C521	1-124-925-11	ELECT	2. 2uF	20%	100V		1-161-494-00		0. 022uF		25V (★:A) 250V
		D1 D00	0.1.5	000	LON		1-102-394-11		0. 01uF 4700uF	20%	
C522	1-124-463-00		0. luF	20%		P.	1-126-224-11 1-126-224-11		4700uF 4700uF	20%	
C523	1-161-379-00		0. 01uF 0. 01uF	20% 20%		1	1-124-477-11		4700ur 47uF	20%	
C524	1-161-379-00 1-124-477-11		47uF	20%		C1300	1 124 411 11	LLDCI	Tiul	20%	201
C525	1-124-411-11	ELECT	4701		(EXCEPT *5)	C1307	1-124-893-11	ELECT	2200uF	20%	10V
C525	1-126-101-11	FI FCT	100uF		16V (*5)		1-126-101-11		100uF	20%	
C523	1-136-173-00		0. 47uF	5%	50V (★:B)		1-124-556-11		2200uF	20%	
C532	1-161-494-00		0. 022uF		25V (★:B)						(A27, *11)
C533	1-124-463-00		0. 1uF	20%	50V (★:B)	C1309	1-126-101-11	ELECT	100uF	20%	16V
	1-124-925-11		2. 2uF		100V					(D2	09, *8, 9, 10)
*****						C1312	1-124-564-11	ELECT	4700uF	20%	25 V
C1002	1-162-282-31	CERAMIC	100PF	10%	50V						(A27, *11)
	1-162-282-31		100PF	10%	50 V	C1312	1-124-563-11	ELECT	2200uF	20%	25V
C1004	1-124-477-11	ELECT	47uF	20%	25V						09, *8, 9, 10)
C1005	1-161-377-00	CERAMIC	0.0047uF	20%		C1313	1-124-564-11	ELECT	4700uF	20%	25V
C1006	1-161-374-11	CERAMIC	0. 0015uF	20%	50 V						(A27, *11)
						C1313	1-124-563-11	ELECT	2200uF		25V
	1-124-464-11		0. 22uF	20%		01010	1 104 400 0) DI DOM	0 1D		109, *8, 9, 10)
	1-124-477-11		47uF	20%		1	1-124-463-00		0. 1uF		50V
	1-124-477-11		47uF		25V	l .	1-124-907-11 1-161-379-00		10uF 0. 01uF		50V 25V
C1012	1-124-925-11	ELECI	2. 2uF	∠U76	100V	(1321	1-101-919-00	CENTAILC	o. orur	20/0	201

Ref. No.	Part No.	Description	<u>1</u>		Remarks	<u>R</u>	ef. No.		Part	No.	<u>De</u> s	scription			Remarks
C1322	1-161-379-00	CERAMIC	0.01uF	20%	25V		D1304	8-	-719-	-200-82	DIODI	E 11ES2			
C1324	1-124-907-11	ELECT	10uF	20%	50V		D1305	8-	-719-	-200-82	DIODI				
01000	1 104 007 11	D: 20m					D1306	8-	-719-	-200-82	DIODI	E 11ES2			
	1-124-907-11 1-124-907-11		10uF	20%			D1010	•	510						
	1-124-907-11		10uF 100uF	20% 20%		1	D1316								
	1-102-394-11		0. 01uF	20/0	250V		D1317 D1318								
	1-124-907-11		10uF	20%	50V (★:C)		D1319								
					()(10)	1	D1321						1		
	1-126-101-11		100uF		16V (★:C)								-		
	1-124-907-11		10uF	20%			D1323	8-	-719-	987-63	DIODI	E 1N4148N	1		
	1-124-925-11		2. 2uF	20%		1	D1324						1		
	1-124-122-11 1-126-105-11		100uF	20%		1	D1341								
C1332	1-120-103-11	ELECI	1000uF	20%	351	i	D1347 D1368						1		
C1353	1-136-165-00	FILM	0. 1uF	5%	50V		D1900	0-	-119-	200-82	וטטוט	11ES2			
	1-136-165-00		0. 1uF		50V		D1369	8-	-719-	200-82	DIODE	11ES2			
C1360	1-161-494-00	CERAMIC	0. 022uF		25V			Ī	0		21021				
					(*2, D259)						< FRO	ONTEND >			
C1361	1-124-122-11	ELECT	100uF	20%	50V										
		(DILETTO)					FE301	1-	-465-	006-11	FRONT	END (FM)	(2 GANG)	(*2, 3)	
		< FILTER >					FE301	1-	-693-	090-21	FRON1	END (FM)	(2 GANG)		10, 11)
CE301	1-577-070-81	FILTER CERA	MIC (EYCEPT	٠.٨١			FE301						(G.1370)	(★:A)	
	1-567-389-11			X (A)								END (FM 3 SULATED CO		(*5)	
	1-577-070-81			★:A)			LEGGI	1	230-	403-11	ENCAF	SOLATED CC	MPONENI	(★:B)	
CF303	1-567-389-11	FILTER, CERA	MIC (★:A)				FE352	1-	-239–	260-11	ENCAF	SULATED CO	MPONENT	(EXCEPT	★ :R)
CF304	1-577-075-11	OSCILLATOR,	CERAMIC				FE352	1-	-239-	261-12	ENCAF	SULATED CO	MPONENT	(★:B)	A . D)
		4 COMMIDOROD													
		< CONNECTOR	>								< IC	>			
* CN212	1-564-506-11	PLUG, CONNEC	TOR 3P				IC301	8-	-759	821-45	īC	LA1851N			
	1-695-089-11) 11P	,		IC501					LC7218			
	1-568-830-11						IC1001					M5218AP			
	1-580-912-21						IC1002					MC14052BCP			
* CN1001	1-580-912-11	JACK, PIN 4P	(IN) (*1, D2	(99			IC1003	8-	759-	634-51	IC	M5218AP			
+ CN1006	1 FC0 OFF 11	DIN COMMECT	OD CD (107)					_							
	1-568-955-11 1-537-494-11			(DVC	EDT 44 0)		IC1202					uPC1237HA			
	1-537-481-11						IC1302 IC1303					M5F7805			
	1-564-508-11			(***))		IC1303				-	M5F7807L M5F79M07			
	1-506-468-11							-				L78MR06			
								-				210			
	1-568-802-11						IC1306	8-	759-	231-58	IC	M5F7812L (★ :C)		
	1-565-291-11			YSTEM	CONTROL)										
	1-695-094-11 1-506-469-11			0 10	,,,						< JAC	K >			
* CN1244	1-566-210-11	PIN CONNECT	OR 4P (A21,* OR 3P (POWER	9, 10,	(F) ((C)	٠	11202	1	ECO :	190 11	TACT	DIN 0D (0	IIDDAINID C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
. 01/1001	1 000 210 11	TIN, COMMECT	OIL DI (IONEIL	SOUN	CE)(A.C)	Α,	J1404	1-	509-	130-11	JACK,	PIN 2P (S	UKROUND S		יוסד אווי
CN1302	1-506-469-11	PIN, CONNECTO	OR 4P											(EACE	PT *11)
											< IFT	>			
		< DIODE >													
חמר:	0 710 007 00	DIADE ****	1011 (1 = 1]	IFT301	1-	404-	713-11	TRANS	FORMER, IF			
	8-719-987-63 8-719-987-63		48M (★:B)												
	8-719-987-63 8-719-987-63										< C01	L >			
	8-719-987-63					1	201	1_	410 <i>'</i>	206_11	TAIDUO	TOD	1	07 411	
	8-719-933-48									586-11 500-00				127, *11)	10)
										525-11			220uH (y)209, * 8, 9 ► ⋅B)	, 1U <i>)</i>
D1302 8	8-719-312-09	DIODE RBA-	402				L1301						10uH (*		
D1303 8	8-719-200-82	DIODE 11ES	2				L1302						10uH (*	•	
					1								•		

Ref. No.	Part No.	Description	1	Remarks	Ref. No.	Part No.	Description	ı			Remarks
		< FILTER >	-		R307	1-249-414-11		_	E0/	1 / 410	
		\ FILIER >			R308	1-249-411-11		560 330		1/4W	F (★:A)
LPF301	1-235-164-00	FILTER, LOW	PASS		R309	1-249-432-11		18K		1/4W	(EXCEPT *1)
	1-235-164-00				R310	1-249-411-11		330	5%	1/4W	(EACEL 1 *1)
211002	1 100 101 00	I I DI DIC, DO	11.00		R311	1-249-434-11		27K		1/4W	(EXCEPT *1)
		< TRANSISTOR	: >				o.m.bo.v		0,0	1/ 111	(EMCELL 41)
					R311	1-247-891-00	CARBON	330K	5%	1/4W	(*1)
Q301	8-729-230-99	TRANSISTOR	2SC2669-0Y	(★:A)	R312	1-249-414-11				1/4W	
Q302	8-729-230-99	TRANSISTOR	2SC2669-0Y	(★:A)							, 3, 5, 7, 9, 11)
Q303	8-729-230-99	TRANSISTOR	2SC2669-0Y	(EXCEPT *1)	R312	1-249-416-11	CARBON	820	5%		F (★:A)
Q304	8-729-230-99	TRANSISTOR	2SC2669-0Y		R313	1-249-405-11	CARBON				
Q305	8-729-900-80	TRANSISTOR	DTC114ES		R314	1-249-437-11	CARBON	47K	5%	1/4W	(★:A)
					R315	1-249-404-00	CARBON	82	5%	1/4W	
Q306	8-729-900-61		DTA114ES		R315	1-249-435-11	CARBON	33K	5%	1/4W	(★:A)
Q307	8-729-900-80		DTC114ES								
Q308	8-729-620-05		2SC2603-EF	(*2, D259)	R316	1-249-429-11				1/4W	
Q308	8-729-119-78		2SC2785-HFE		R317	1-249-417-11				1/4W	F
Q309	8-729-620-05	TRANSISTOR	2SC2603-EF	(*2, D259)	R318	1-249-435-11				1/4W	
0000	0 700 110 70	MD I NOT OMOD	0000705 1777	(.1 5000)		1-249-428-11				1/4W	F
Q309	8-729-119-78		2SC2785-HFE	` ' '	R320	1-249-432-11	CARBON	18K	5%	1/4W	
Q351	8-729-900-80		DTC114ES	(★:B)	2001	1 010 100 11					_
Q352	8-729-119-78		2SC2785-HFE			1-249-423-11				1/4W	F
Q352	8-729-620-05			(*9, 10)		1-249-429-11				1/4W	_
Q353	8-729-119-76	TRANSISIUR	2SA1175-HFE	(*:R)	R323	1-249-418-11	CARBON	1. ZK	5%	1/4W	
Q354	8-729-900-80	TRANSISTOR	DTC114ES	(★:B)	R323	1-249-423-11	CADDON	יופ פ	E0/		XCEPT ★:A)
Q355	8-729-900-80		DTC114ES	(★:B)		1-249-423-11					F (*4, 6)
Q356	8-729-900-80		DTC114ES	(★:B)		1-249-429-11				1/4W	F (*8)
Q501	8-729-900-80		DTC114ES	(4.0)		1-249-429-11				1/4W	
Q502	8-729-900-61		DTA114ES			1-249-409-11				1/4W	r ·
4002	0 120 000 01	1111110101011	DIMITIES		Nozo	1 243 403 11	CARDON	220	J/0	1/4#	T.
Q521	8-729-202-67	TRANSISTOR	2SK246-GR3		R327	1-249-437-11	CARBON	47K	5%	1/4W	
Q522	8-729-201-84	TRANSISTOR	2SC3112-B	(A27, *11)		1-249-437-11				1/4W	
Q522	8-729-141-26	TRANSISTOR		(D209, *8, 9, 10)	R331	1-247-899-11				1/4W	
Q531	8-729-202-67	TRANSISTOR	2SK246-GR3		R332	1-247-899-11	CARBON	680K	5%	1/4W	
Q532	8-729-141-26	TRANSISTOR	2SC3622A-LK	(★:B)	R333	1-249-421-11	CARBON			1/4W	F
	8-729-900-36		DTC124ES	(*1)		1-249-421-11				1/4W	
	8-729-119-76		2SA1175-HFE	(*1)		1-249-420-11				1/4W	
	8-729-900-63		DTA124ES			1-249-420-11				1/4W	F
	8-729-209-15		2SD2012	(+0 D0F0)		1-249-426-11		5. 6K			
Q1304	8-729-620-05	TRANSISTOR	2SC2603-EF	(*2, D259)	R338	1-249-426-11	CARBON	5. 6K	5%	1/4W	
01304	8-729-119-78	TRANSISTOR	2SC2785-HFE	(*1 D200)	R351	1-249-433-11	CADDON	you.	E0/	1 / AW	(- A D)
	8-729-620-05		2SC2603-EF			1-249-433-11				1/4W 1/4W	(★:B)
	8-729-119-78		2SC2785-HFE	1		1-247-903-00				1/4W	(★:B) (★:B)
Q1000	0 120 110 10	THEROTOTOR	ESCETOS IN E	(*1, 0200)		1-249-441-11				1/4W	(★:B)
		< RESISTOR >				1-249-433-11				1/4W	(★:B)
						2 2 10 100 11	cintbott .		070	1/ 11/	()
R301	1-249-401-11	CARBON	17 5% 1/4	4W F	R356	1-249-421-11	CARBON	2. 2K	5%	1/4W	F (★:B)
R302	1-249-409-11	CARBON 2	220 5% 1/4	4W F (*1)		1-249-437-11				1/4W	
R302	1-249-413-11	CARBON	170 5% 1/4	4W F (*2, 3, 5)	R362	1-249-437-11	CARBON -	17K	5%	1/4W	
R302	1-249-407-11	CARBON :	150 5% 1/4	4W F	R363	1-249-425-11	CARBON	1.7K	5%	1/4W	F (★:B)
				(*7, 9, 10, 11)	R364	1-249-425-11	CARBON	1.7K	5%	1/4₩	F (★:B)
	1-249-405-11			1W F (★:A)							
	1-249-411-11		330 5% 1/4		R365	1-249-429-11	CARBON :	LOK :	5%	1/4W	
	1-249-432-11		8K 5% 1/4								209, *8, 9, 10)
	1-249-411-11		330 5% 1/4			1-249-413-11					F (★:B)
R306	1-249-434-11	CARBON 2	27K 5% 1/4	1₩ (★:A)		1-249-434-11				1/4W	(★:B)
						1-249-433-11				1/4W	(★:B)
					R370	1-249-423-11	CARBON 3	3. 3K	5%	1/4W	F (★:A)

Ref. No.	Part No.	Description	<u>1</u>]	Remarks	Ref. No.	Part No.	Description	<u>1</u>				Remarks
R501	1-249-417-11	CARBON	1K	5%	1/4₩	F		R1023	1-249-437-11	CARBON	47K	5%	1/4W		
11001	1 210 11. 11	o.m.bon		0,2	-,	-			1-249-417-11				1/4W	F	
R502	1-249-417-11	CARBON	1K	5%	1/4W	F			1-249-433-11				1/4W		(*1)
R503	1-249-417-11				1/4W				1-249-433-11			5%	1/4W		(*1)
R504	1-249-417-11				1/4W			R1031	1-249-433-11	CARBON			1/4W		(*1)
R505	1-249-429-11	CARBON			1/4W										
R506	1-249-417-11		1K		1/4W	F		R1035	1-249-415-11	CARBON	680	5%	1/4W	F	
								R1037	1-249-421-11	CARBON			1/4W		
R510	1-249-401-11	CARBON	47	5%	1/4W	F		R1051	1-249-417-11		1K		1/4W		
R511	1-249-429-11				1/4W			R1052	1-249-441-11	CARBON	100K				
R512	1-249-425-11		4.7K			F		R1053	1-249-416-11				1/4W	F	
	1-249-417-11		1K		1/4W										
R514	1-249-429-11		10K					R1054	1-247-897-11	CARBON	560K	5%	1/4₩		
								R1055	1-249-437-11	CARBON	47K	5%	1/4W		
R515	1-249-417-11	CARBON	1K	5%	1/4W	F		R1056	1-249-409-11	CARBON	220	5%	1/4W	F	
R521	1-249-423-11	CARBON	3. 3K	5%	1/4W	F		R1057	1-249-441-11	CARBON	100K	5%	1/4W		
R522	1-249-425-11	CARBON	4.7K	5%	1/4W	F		R1058	1-249-409-11	CARBON	220	5%	1/4W	F	
R523	1-249-414-11				1/4W										
R524	1-249-417-11	CARBON	1K		1/4W			R1060	1-249-417-11	CARBON	1K	5%	1/4W	F	
								R1062	1-249-417-11	CARBON	1K	5%	1/4W	F	
R525	1-249-410-11	CARBON	270	5%	1/4W	F		R1063	1-249-441-11	CARBON	100K				
R526	1-249-421-11		2. 2K		1/4W				1-249-415-11		680		1/4W	F	
R527	1-249-425-11		4.7K	5%	1/4₩	F		R1071	1-249-437-11	CARBON	47K	5%	1/4W		
R528	1-249-425-11	CARBON	4.7K	5%	1/4W	F									
R529	1-249-405-11	CARBON	100	5%	1/4W	F		R1072	1-249-432-11	CARBON	18K	5%	1/4W		(A27)
								R1073	1-249-437-11	CARBON	47K	5%	1/4W		
R530	1-249-405-11	CARBON	100	5%	1/4W	F		R1074	1-249-417-11	CARBON	1K	5%	1/4W	F	
R531	1-249-423-11	CARBON	3. 3K	5%	1/4W	F (★: B)	R1095	1-249-433-11	CARBON	22K	5%	1/4W		(A27, *11)
R532	1-249-433-11	CARBON	22K	5%	1/4W	(★: B)	R1222	1-249-415-11	CARBON	680	5%	1/4W	F	
R533	1-249-414-11	CARBON	560	5%	1/4W	F (★: B)								
R534	1-249-417-11	CARBON	1K	5%	1/4W	F (★ :B)	R1223	1-249-415-11	CARBON	680	5%	1/4W	F	
								R1226	1-215-890-11	METAL OXIDE	470	5%	2W	F	
R535	1-249-410-11	CARBON	270	5%	1/4W	F (★: B)	R1233	1-249-433-11	CARBON	22K	5%	1/4W		
R536	1-249-421-11	CARBON	2. 2K	5%	1/4W	F (★: B)	R1234	1-249-433-11	CARBON	22K	5%	1/4W		
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	F (★: B)	R1235	1-249-437-11	CARBON	47K	5%	1/4W		
R538	1-249-405-11	CARBON	100	5%	1/4W	F (★ :B)								
R613	1-249-441-11	CARBON	100K	5%	1/4W	(*9	, 10, 11)	R1236	1-249-441-11	CARBON	100K	5%	1/4W		
								R1237	1-249-429-11	CARBON	10K	5%	1/4W		
R631	1-249-441-11	CARBON	100K	5%	1/4W			R1240	1-249-438-11	CARBON	56K		1/4W		
					((A27,	D209, *8)	R1241	1-249-385-11	CARBON	2. 2				(★:A)
R1001	1-249-417-11	CARBON	1K	5%	1/4W	F		R1242	1-249-385-11	CARBON	2. 2	5%	1/6W	F	(★:A)
	1-249-441-11		100K												
	1-249-416-11		820		1/4W	F		3	1-249-385-11		2. 2				(★:A)
	1-247-897-11		560K					1	1-249-385-11		2. 2				(★:A)
R1005	1-249-437-11	CARBON	47K	5%	1/4W			ľ	1-249-415-11		680		1/4W		
								i .	1-249-415-11		680		1/4₩	F	
	1-249-409-11				1/4W	F		R1290	1-249-437-11	CARBON	47K	5%	1/4₩		
	1-249-441-11		100K												
	1-249-409-11		220		1/4W			1	1-249-429-11		10K		1/4W		
	1-249-417-11		1K		1/4W			1	1-249-429-11		10K		1/4W		
R1012	1-249-417-11	CARBON	1K	5%	1/4W	F		1	1-249-433-11		22K		1/4W		
					.			i	1-249-433-11		22K		1/4W	_	
	1-249-441-11		100K					R1321	1-249-417-11	CARBON	1K	5%	1/4W	F	
	1-249-437-11		47K		1/4W				1 040 455	010000			• • • • •		
	1-249-437-11		47K		1/4W			1	1-249-429-11		10K		1/4W	_	
	1-249-437-11		47K		1/4W			1	1-249-421-11				1/4W		(1 0)
R1022	1-249-432-11	CARBON	18K	5%	1/4W	(A27)	1	1-249-425-11						(★ :C)
								R1347	1-249-417-11	CARBON	1K	5%	1/4W	F	

					Г 			 1					
MAIN	SURF	ROUND	PANEL	H. P	PO	WER S	UPPLY	(B)	MIC	STAN	1D	-BA	VR
Ref. No.	Part No.	Description	n	Rema	arks	Ref. No	. Part No.	Des	scription			Rem	arks
		< VARIABLE I	- RESISTOR >			*	1-646-478-1	1 POWE	R SUPPLY	(B) BOARD			
2001	1 000 001 11	DDG ADI G	ADDOM CON					****	******	******			
	1-238-601-11 1-238-601-11					*	1-646-479-1		,	•			
		< RELAY >						****	*******	**			
		\ KELAI /				*	1-646-480-1	1 STAN	D-BY SW B	OARD			
	1-515-533-11		(D000 +0)					****	******	****			
RY1ZU1	1-515-920-11	RELAY (24V)	(DZU9, *8)			*	1-646-497-1	1 VR B	OARD				
		< TRANSFORM	ER >					****	****				
T301	1-404-807-11	TRANSFORMER,	DISCRIMINATOR	<u>:</u>		*	1-533-213-1	1 HOLD	ER, FUSE	(*2, D259)			
T302	1-235-126-00	ENCAPSULATE	D COMPONENT (★	·:A)		*	1-533-213-3		•				
		/ TEDMINAL Y				3,	1-533-217-3						
		< TERMINAL :	,			* *	1-533-293-1 4-942-301-0						
TM301	1-537-264-11	TERMINAL BOA	ARD (ANTENNA) ((A27, *3, 10,	11)	*	1 012 001 0	1 11000	D.1., 12 10				
* TM301	1-537-288-11	TERMINAL BOA	ARD, ANTENNA (F	AL) (ANTEN (*4, 5, 6, 7, 8		*	4-949-935-3	1 CUSH	ION (FL)	(*2, D259)			
				, ., ., .,	-, -,			< CA	PACITOR >				
		< TEST PIN	>			C603	1-136-169-0	о вим	0	22uF 5	5%	50V	
* TP1	1-560-060-00	PIN. CONNECT	TOR 2P			C604	1-164-159-1			luF	J/0	50V	
	1 000 000 00	Tin, conde				C605	1-125-486-1					5. 5V	
		< VIBRATOR :	>			C606	1-164-159-1			luF	000/	50V	
YT501	1-577-126-21	VIRRATOR C	RVSTAI			C607	1-124-907-1	I ELEC	T 10	luF :	20%	507	
	1-579-383-11					C608	1-161-379-0	0 CERA	MIC 0.	01uF	20%	25V	
						C609	1-161-379-0	0 CERA			20%		
						•	1-162-286-3				10%		
******	*****	*****	******	*******	* **	C650	1-124-907-1 1-124-257-0				20% 20%		
*	A-4356-640-A	PANEL BOARD,	COMPLETE (*1)				1 124 251 0	0 DDDC		Dui 1	2070	001	
		******	*****	:		C1102	1-124-589-1	1 ELEC	T 47		20%		
*	A-4356-736-A	PANEL BOARD,	COMPLETE (*2)			1	1-162-282-3				10%		
			**********				1-124-257-0				20%		
*	A-4356-623-A		, COMPLETE (*3) *******				1-124-464-1 1-136-161-0				20% 5 %	50V 50V	
*	A-4356-930-A		COMPLETE (*4)			01100	1 100 101 0	U I I I III	0.	OTIUL (070	001	
		•	******			C1107	1-136-155-0	0 FILM	0.	015uF	5%	50V	
*	A-4360-822-A		COMPLETE (*5)			i	1-136-155-0				5%	50V	
	1 1050 001 1		*************			1	1-137-437-1				5% 20°	50V	
*	A-4350-924-A	•	, COMPLETE (*6) *******				1-161-327-0 1-136-155-0				20% 5%	50V	
*	A-4356-608-A		COMPLETE (*7)				1 100 100 0	0 112	•	orour .	0,0	001	
		*******	********	:		ţ	1-136-157-0				5%	50V	
*	A-4360-541-A		COMPLETE (*8)			1	1-136-153-0					50V	
*	A_4360_521_A		************** COMPLETE (*9)			1	1-161-377-0 1-124-257-0				20% 20%		
ጥ	n 4000-331-A		, COMPLEIE (*3) *********			ì	1-161-379-0				20% 20%		
*	A-4360-520-A		COMPLETE (*10				·						
			*********				1-161-379-0				20%		
*	A-4360-509-A	•	COMPLETE (*11	•			1-162-286-3				10% =~		
		******	******	· ች		l	1-162-215-3 1-162-215-3				5% 5%	50V 50V	
*	1-646-477-11	H. P BOARD				1	1-124-257-0				20%		

						1	1-124-589-1				20% 10%		
						į.	1-162-282-3 1-124-257-0				10% 20%		
						(01104	1 101 001 0	, mm			_ 0/0	301	

PANEL	H. P	POWER SUPPLY (B)) Mic	S	ΤΑΙ	ND-	ВҮ	VR
Def Ne D	and Ma	Description		T) - f	N T -	D 4	27	.

Ref. No.	Part No.	Descri	ption		R	<u>emarks</u>	Ref. No.	Part	No.	Descr	ription	Remarks
C1155	1-124-464-11	ELECT	0. 22uF	20%	50V		D614	8-719	-987-63	DIODE	1N4148M	
C1156	1-136-161-00	FILM	0.047uF	5%	50V							
C1157	1 126 155 00	DILM	0.015	ΕW	F017		D615		-987-63		1N4148M	
	1-136-155-00 1-136-155-00		0. 015uF 0. 015uF	5% 5%	50V 50V		l		-987-63 -987-63		1N4148M	
	1-137-437-11		0. 015dr 0. 0056uF	5%	50V		l		-987-63		1N4148M (*1, 4, 8, 11) 1N4148M (A27, *11)	
	1-161-327-00			20%			D624		-987 - 63		1N4148M (*5)	
	1-136-155-00		0. 015uF	5%	50V		-,		00, 00	21022	111111111111111111111111111111111111111	
							D625	8-719	-987-63	DIODE	1N4148M	
	1-136-157-00		0. 022uF	5%	50V				-987-63		1N4148M	
	1-136-153-00		0. 01uF	5%	50V				-987-63		1N4148M	
	1-161-377-00 1-124-257-00			20%			1		-200-82		11ES2	
	1-124-237-00		2. 2uF 220PF	20% 10%			D1130	8-119	-301-37	LED	SEL2210S-CD	
CIIIO	1 102 200 01	CLIMITO	22011	10/0	301		D1131	8-719	-301-37	LED	SEL2210S-CD	
C1181	1-162-215-31	CERAMIC	47PF	5%	50V		1		-301-37		SEL2210S-CD	
C1182	1-162-215-31	CERAMIC	47PF	5%	50V		ŀ		-301-37		SEL2210S-CD	
	1-161-379-00			20%			D1134	8-719	-301-37	LED	SEL2210S-CD	
	1-162-282-31					(★ :A)	D1141	8-719	-301-37	LED	SEL2210S-CD	
C1238	1-162-282-31	CERAMIC	100PF	10%	50V	(★:A)	D					
C1 401	1 169 904 91	CEDANTO	0.001E	1.00/	COTT	(107)			-313-69		SEL3210S-CD	
	1-162-294-31 1-124-916-11		0. 001uF 22uF	10%		(A27) (A27)	l		-987-63		1N4148M	
	1-124-916-11		22uF			(A27)	l		-987 - 63 -987-63		1N4148M 1N4148M	
	1-124-443-00		100uF		10V		l		-987 - 63		1N4148M	
	1-126-163-11		4. 7uF			(A27)	22201	0 110	001 00	DIODE	1111110111	
										< FILTE	ER >	
	1-161-379-00					(A27)						
C1410	1-126-163-11	ELECT	4. 7uF	20%		. 5050)	l .				OR TUBE, FLUORESCENT	
C1411	1-124-443-00	DI DOT	100F	200		7, D259)	FL1401	1-519	-648-21	INDICAT	OR TUBE, FLUORESCENT	(A27)
	1-124-445-00		100uF 2. 2uF		10V	(*1) (A27)				< IC >		
	1-124-463-00		2. 2ur 0. 1uF			(A27)				\ IC /		
	1-124-925-11		2. 2uF			(A27)	IC601	8-759	-096-99	IC uF	PD75212ACW-A47	
C1604	1-162-294-31	CERAMIC	0.001uF			(A27)			-922-36		P1U50XB	
							IC1101	8-759	-634-51	IC MS	5218AP	
	1-162-215-31		47PF	5%		(A27)			-634-51		5218AP	
	1-162-282-31		100PF			(A27)	IC1103	8-759	-820-62	IC LE	31639	
	1-162-215-31 1-124-589-11		47PF 47uF	5% 20%		(A27) (A27)	101104	0 750	016 10	TC TC	27 HIGOOD	
	1-124-589-11		47uF		16V				-916-12 -065-87		C74HC00P R-1096 (A27)	
01000	1 121 000 11	LLLC1	Trui	2070	101	(1121)				IC MS	, ,	
C1610	1-162-282-31	CERAMIC	100PF	10%	50 V	(A27)	101001	0 100	001 01	10 1110	(121)	
										< JACK	>	
		< CONNEC	CTOR >									
							l)				LARGE TYPE (HEADPHONE	
			CONNECTOR 11P								ARGE TYPE (HEADPHONE	S) (*1)
CNIIUI	1-568-802-11	SOCKEI,	CONNECTOR 19P				* J1201	1-691	-003-11	JACK, I	ARGE TYPE (MIC)	
		< DIODE	>							< COIL	`	
		\ DIODL	,							COIL		
D601	8-719-987-63	DIODE	1N4148M				L601	1-410	-521-11	INDUCTO	OR 100uH	
D602	8-719-010-26	DIODE	UZ-3. 9BSB									
D603	8-719-987-63		1N4148M							< TRANS	SISTOR >	
D604	8-719-987-63		1N4148M						000 -			
D605	8-719-987-63	DIODE	1N4148M							TRANSIS		
D606	8-719-933-48	DIODE	HZS7B3L							TRANSIS		1, DZU9)
	8-719-987-63		1N4148M							TRANSIS TRANSIS		
	8-719-987-63		1N4148M				-			TRANSIS		2. D259)
	8-719-987-63		1N4148M				4					_,/

Ref. No.	Part No.	Description	o <u>n</u>]	Remarks	Ref. No.	Part	No.	Descri	ption				<u>Remarks</u>
01101	8-729-119-78	TDANCICTOD	200	2785-HFI	. (+1	D21	101	P1114	1-2/0	-420-11	CARBON	10K	5%	1/4W		
•				2105-nf1 3622A-LH		, υΔι) 5)				CARBON	10K	5%	1/4W		
	8-729-141-26				7			l .			CARBON			1/4W		
	8-729-900-36			124ES	,						CARBON	7.5K		1/4W		
	8-729-119-76			1175-HFI	3			l				7.5K			172	
Q1136	8-729-900-36	TRANSISTOR	DIC	124ES				KIII8	1-249	-425-11	CARBON	4.7K	576	1/4W	r	
		mp.11107.0m0D	D.M.O.	10.470				D1110	1 040	/OF 11	CADDON	4 7717	ΕW	1 / 4707	Б	
	8-729-900-36			124ES							CARBON	4. 7K		1/4W		
4	8-729-900-63			124ES				l e			CARBON	3. 3K		1/4W		
-	8-729-900-63			124ES				ŀ			CARBON	3. 3K		1/4W	F	
	8-729-900-80			114ES				1			CARBON	220K		1/4₩	_	
Q1144	8-729-900-80	TRANSISTOR	DTC	114ES				R1123	1-249	-421-11	CARBON	2. 2K	5%	1/4₩	F	
															_	
•	8-729-900-61			114ES				1			CARBON	4. 7K		1/4₩	F	
•	8-729-620-05			2603-EF				1			CARBON	22K	5%	1/4₩		
Q1151	8-729-119-78	TRANSISTOR		2785-HFI		, D2	09)	1			CARBON	3. 3K	5%	1/4W	F	
Q1152	8-729-141-26	TRANSISTOR	2SC	3622A-LI	(1			CARBON	39K	5%	1/4W		(A27)
								R1130	1-249	-412-11	CARBON	390	5%	1/4W	F	
		< RESISTOR	>													
								R1132	1-249	-412-11	CARBON	390	5%	1/4W	F	
R601	1-249-429-11	CARBON	10K	5%	l/4₩			R1133	1-249	-412-11	CARBON	390	5%	1/4₩	F	
R602	1-249-429-11	CARBON	10K	5%	L/4W			R1135	1-249	-433-11	CARBON	22K	5%	1/4₩		
R603	1-249-423-11	CARBON	3. 3K	5%	L/4₩	F		R1142	1-249	-412-11	CARBON	390	5%	1/4W	F	
R604	1-249-437-11	CARBON	47K	5%	l/4₩		(*4, 8)	R1143	1-249	-433-11	CARBON	22K	5%	1/4W		
R605	1-249-433-11	CARBON	22K	5%	L/4W											
								R1145	1-249	-412-11	CARBON	390	5%	1/4W	F	
R606	1-249-433-11	CARBON	22K	5%	L/4W			R1149	1-249	-429-11	CARBON	10K	5%	1/4W		
R607	1-249-439-11	CARBON	68K	5%	L/4₩			R1151	1-249	-441-11	CARBON	100K	5%	1/4W		
R608	1-249-417-11		1K		1/4₩	F		R1152	1-249	-417-11	CARBON	1K	5%	1/4W	F	
R609	1-249-405-11		100		1/4W						CARBON	100K		1/4W		
R610	1-249-429-11		10K		1/4W	-					011112-011			-,		
11020	1 210 120 11	o.m.bo.v		0,0	-,			R1155	1-249	-433-11	CARBON	22K	5%	1/4W		
R611	1-249-437-11	CARBON	47K	5%	L/4₩			ŧ			CARBON	3. 9K		1/4W	F	
R612	1-249-417-11		1K		1/4W	F		1			CARBON	100K		1/4W	-	
R613	1-249-425-11		4. 7K		1/4W			1			CARBON	6. 8K		1/4W	F	
R614	1-249-393-11		10		L/4W						CARBON	390	5%	1/4W		
R621	1-249-433-11		22K		1/4W	r		KIIJJ	1 443	412 11	CARDON	330	3/0	1/411	I.	
K021	1-245-455-11	CAMBON	22K	J/0 .	1/411			P1160	1_2/0	_/21_11	CARBON	15K	5%	1/4W		
Degg	1-249-433-11	CADDOM	9.917	EQ :	1/4W						CARBON	68K	5%	1/4W		
R622			22K													
R623	1-249-433-11		22K		1/4W						CARBON	22K	5%	1/4W		
R624	1-249-433-11		22K		L/4₩	ъ	(+1 D050)				CARBON	15K	5%	1/4W		
R625	1-249-417-11		1K				(*1, D259)	K1164	1-249	-429-11	CARBON	10K	5%	1/4W		
R642	1-249-409-11	CARBON	220	5%	1/4W	r		DIICE	1 040	400 11	CADDOM	1.077	F0/	1 / 470		
50.10	1 040 417 11	a a ppour	117	F0/ -	. / 4777	_	(.a page				CARBON	10K	5%	1/4W		
R643	1-249-417-11	CARBON	1K	5% 1	L/4W	r	(*2, D209,	l			CARBON	7. 5K		1/4W		
						_	8, 10, 11)	3			CARBON	7. 5K		1/4W	_	
	1-249-409-11		220		L/4₩	F	(*2)	Į.			CARBON	4. 7K		1/4W		
	1-249-441-11		100K		L/4W	_		R1169	1-249	-425-11	CARBON	4.7K	5%	1/4W	F	
	1-249-417-11		1K		L/4₩	F										
R1103	1-249-431-11	CARBON	15K	5%	L∕4₩						CARBON	3. 3K		1/4₩		
								i			CARBON	3. 3K		1/4W	F	
R1104	1-249-441-11	CARBON	100K	5% 1	L/4₩			R1172	1-247	-887-00	CARBON	220K	5%	1/4W		
R1105	1-249-433-11	CARBON	22K	5%	L/4₩			R1173	1-249	-421-11	CARBON	2. 2K	5%	1/4W	F	
R1106	1-249-424-11	CARBON	3.9K	5%	l/4₩	F		R1174	1-249	-425-11	CARBON	4.7K	5%	1/4W	F	
R1107	1-249-441-11	CARBON	100K	5%	l/4₩											
R1108	1-249-427-11	CARBON	6.8K	5%	L/4₩	F		R1176	1-249	-423-11	CARBON	3. 3K	5%	1/4W	F	(A27)
								R1177	1-249	-436-11	CARBON	39K	5%	1/4W		(A27)
R1109	1-249-412-11	CARBON	390	5% 1	1/4₩	F		R1401	1-249	-418-11	CARBON	1. 2K	5%		F	(A27)
	1-249-431-11		15K	5% 1	∠/4 ₩											
	1-249-439-11		68K	5% 1	∠/4 ₩			R1402	1-247	-881-00	CARBON	120K	5%	1/4W		(A27)
	1-249-433-11		22K		/4W			1			CARBON	120K		1/4W		(A27)
	1-249-431-11		15K		∕4₩			l			CARBON	220	5%	1/4W	F	
																•

PANEL	. Н. Р	POWER	SUPPLY	(R)	MIC	STA	ND-BY	VR	POWE	R A	MP	LIFIER
- AITE		· OWEIT		(5)	10110	<u> </u>						
Ref. No.	Part No.	Description		Rema	arks	Ref. No.	Part No.	Descript	ion		1	Remarks
		COMPOSITION CIT	OCULT DI OCU	(A27)							-	temarity.
		COMPOSITION CIT		(A27)				< VIBRATO	к /			
	1-249-429-11			(A27)		X601	1-567-775-11	VIBRATOR.	CERAMIC			
	1-249-417-11			F (A27)				,,				
R1603	1-249-412-11	CARBON 390	5% 1/4W	F (A27)								
		a.nna		(10=)	- 1	******	******	*******	*******	****	*****	*****
	1-249-434-11 1-249-433-11		5% 1/4W 5% 1/4W	(A27)	- 1		A 4256 640 A	DOMED YND	TIBIED DOAR	D 00	MULTURE	(11)
	1-249-435-11			(A27) (A27)	- 1	*	A-4356-649-A		LIFIEK BUAF ********			` ,
111000	1 210 101 11	OMEDON THE	0,0 1,11	(1121)		*	A-4356-749-A					
		< VARIABLE RES	STOR >						*******	,		· -/
					l l	*	A-4356-628-A	POWER AMP	LIFIER BOAF	D, CO	MPLETE	(*3)
		RES, VAR, CARBO		•	-				********			
		RES, VAR, CARBO		·		*	A-4356-935-A			•		. , .,
		RES, VAR, SLIDI				*	A-4356-616-A		*********** 			
		RES, VAR, SLIDI		•		•	N 4000 010 N		********			
		, , , , , , , , , , , , , , , , , , , ,				*	A-4360-546-A					
RV1106	1-223-289-11	RES, VAR, SLID	E 100K (3. 3KH2	z)				******	*******	****	*****	****
		RES, VAR, SLIDI				*	A-4360-537-A			•		` '
		RES, VAR, CARBO							*******			
		RES, VAR, CARBO				*	A-4360-527-A					
KV1133	1-223-203-11	RES, VAR, SETU	5 100K (100Hz)	,		*	A-4360-516-A		********** 1.15158.BOAE			
RV1154	1-223-289-11	RES, VAR, SLIDI	E 100K (330Hz))		•	1 1000 010 11		*********	•		` ,
		RES, VAR, SLIDI										
		RES, VAR, SLIDI						< CAPACIT	OR >			
RV1157	1-223-289-11	RES, VAR, SLID	E 100K (10KHz))		~						
		< SWITCH >					1-124-257-00		2. 2uF	20%	50V	
		\ Switch >				C1202	1-162-286-31	CERAMIC	220PF	10%	50V	PT ★:A)
S601	1-554-303-21	SWITCH, TACTILI	E (1)			C1202	1-162-290-31	CERAMIC	470PF	10%	50V	(★:A)
S602	1-554-303-21	SWITCH, TACTILI	E (2)				1-162-286-31		220PF	10%	50V	
		SWITCH, TACTILI									(EXCE	PT ★:A)
		SWITCH, TACTILI					1-162-292-31		680PF	10%	50V	(★:A)
S605	1-554-303-21	SWITCH, TACTILI	E (5)				1-124-477-11		47uF	20%	25V	
S606	1-554-303-21	SWITCH, TACTILI	r (6)				1-124-910-11 1-124-122-11		47uF	20%	50V	
		SWITCH, TACTILI					1-124-122-11		100uF 0. 1uF	20% 5%	50V 50V	
		SWITCH, TACTILI				01201	1 100 100 00		o. rui	<i>57</i> 0	301	
		SWITCH, TACTILI				C1208	1-124-916-11	ELECT	22uF	20%	63V	
S610	1-554-303-21	SWITCH, TACTILI	E (0)				1-164-159-11		0. 1uF		50V	
0011	1 554 000 01	OWINGI MIONII	· .				1-136-163-00		0.068uF	5%	50V	
		SWITCH, TACTILI					1-136-163-00		0. 068uF	5%	50V	
		SWITCH, TACTILI SWITCH, TACTILI			1	C1220	1-124-910-11	ELECI	47uF	20%	50V	
		SWITCH, TACTILI		r)		C1230	1-161-494-00	CERAMIC	0. 022uF		25V	(★:A)
		SWITCH, TACTILI	•				1-161-494-00		0. 022uF			(★:A)
							1-161-494-00		0. 022uF			(★:A)
		SWITCH, TACTILI					1-161-494-00		0. 022uF		25V	(★:A)
		SWITCH, TACTILI			-0)	C1251	1-124-257-00	ELECT	2. 2uF	20%	50V	
		SWITCH, TACTILI		31, *4, D25) (B)	C19E9	1_160 000 01	CEDANTO	ממחפפ	100	F0**	
		SWITCH, TACTILI				C1252	1-162-286-31	CERAMIC	220PF	10%	50V	Γ ★:A)
5021	1 003 000 21	online, incilli	. (00)			C1252	1-162-290-31	CERAMIC	470PF	10%		(★:A)
S622	1-554-303-21	SWITCH, TACTILI	E (TUNER)			2200	01	January 10	1,011	± U/U	501	\A • • • • • •
S623	1-554-303-21	SWITCH, TACTILI	E (PHONO)									
S1102	1-571-305-11	SWITCH, PUSH (1	EQULIZER) (1 KE	EY)								
					1							

POWER AMPLIFIER

POWER SUPPLY

							1 D ()T	D- 4 N-	D!!				Domonilo
Ref. No.	Part No.	Description	<u>on</u>			Remarks		Part No.	Description				Remarks
C1253	1-162-286-31	CERAMIC	220PF	10%	50V		1	1-249-421-11		2. 2K		1/4W	
				((A:★ 1		1-249-421-11		2. 2K		1/4W	
	1-162-292-31		680PF	10%		(★:A)		1-249-397-11		22	5%	1/4W	
	1-124-477-11		47uF	20%	25V		1	1-249-397-11		22	5%	1/4W	
	1-124-910-11		47uF	20%	50V		R1220	1-249-397-11	CARBON	22	5%	1/4W	F
	1-124-122-11		100uF	20%	50 V								_
C1257	1-136-165-00	FILM	0. 1uF	5%	50V			1-249-397-11		22	5%	1/4₩	F
								1-249-429-11		10K	5%	1/4W	
	1-136-163-00		0. 068uF	5%	50V			1-247-881-00			5%	1/4W	
	1-136-163-00		0. 068uF	5%	50V	(1 1)	1	1-249-439-11		68K	5%	1/4W	
C1280	1-161-494-00	CERAMIC	0. 022uF		251	(★:A)	R1230	1-249-439-11	CARBON	68K	5%	1/4W	
		4 00MIDOTO	n \				D1991	1-249-417-11	CADDON	1K	5%	1/4W	E.
		< CONNECTO	K /				4	1-249-417-11		8. 2K		1/4W	
. 011001	1 504 510 11	DI LIC CONNI	POTOD 9D				l l	1-249-428-11		o. zr. 22K	5%	1/4W	Г
	1-564-518-11							1-249-433-11		22K 5.6K		1/4W	
* CN1202	1-564-522-11	PLUG, CONN	CCIOR IF				l l	1-249-383-81		1. 5	5%	-	F (*3, 5, 7)
		< DIODE >					K1241	1-249-303-01	CARDON	1. 3	<i>31</i> 0	1/41	r (+0, 0, 1)
		/ DIODE /					R1251	1-249-417-11	CARBON	1K	5%	1/4W	F
D1201	8-719-987-63	DIODE 1N	4148M				i i	1-249-438-11		56K	5%	1/4W	-
	8-719-987-63		4148M				į.	1-249-417-11		1K	5%	1/4W	F
J1201	5 110 001 00	21021 111						1-249-438-11		56K	5%	1/4W	=
		< IC >						1-249-425-11		4. 7K		1/4W	F
		'											
IC1201	8-749-900-24	IC STK-4	162MK2 (A27. *1	1)		R1256	1-249-425-11	CARBON	4.7K	5%	1/4W	F
	8-749-900-96		142MK2 (D	209, *8,	9, 10)		R1257	1-249-425-11	CARBON	4.7K	5%	1/4₩	F
			,				1	1-249-425-11		4.7K	5%	1/4W	F
		< COIL >					▲ R1259	1-212-881-11	FUSIBLE	100	5%	1/4₩	F
							▲ R1260	1-217-151-00	RES, METAL	PLATE		0.22	
L1221	1-420-872-00	COIL, AIR	CORE										
L1251	1-420-872-00	COIL, AIR	CORE				R1261	1-249-417-11	CARBON	1K	5%	1/4₩	F
							R1262	1-249-431-11	CARBON	15K	5%	1/4₩	
		< TRANSIST	OR >				R1263	1-249-441-11	CARBON	100K	5%	1/4₩	
							R1268	1-249-397-11	CARBON	22	5%	1/4W	F
Q1201	8-729-140-84	TRANSISTOR	2SC184	1-PAFAI	EΑ		R1269	1-249-397-11	CARBON	22	5%	1/4₩	F
Q1202	8-729-900-80	TRANSISTOR	DTC114	ES									
Q1203	8-729-620-05	TRANSISTOR						1-249-397-11		22	5%	1/4W	
•	8-729-119-78				. ,	09)	R1271	1-249-397-11	CARBON	22	5%	1/4₩	F
Q1251	8-729-140-84	TRANSISTOR	2SC184	1-PAFAI	EΑ								
		< RESISTOR	>				******	******	******	******	***	******	**** ****
P1201	1-249-417-11	CARRON	1K 5	% 1/	4W F		*	1-646-474-11	POWER CIIDO	LA BUTE	D		
	1-249-417-11		56K 5				1	1 040-414-11	*******				
	1-249-438-11		1K 5		¥₩ F				ተ ተተቀቀቀ	ተ ጥጥጥተላች	•		
	1-249-417-11		56K 5						< CAPACITO	R S			
	1-249-438-11		4.7K 5		1W F				· CAFACIIU	n /			
W1709	1-645-465-11	CUIDON	7. 1L D	/U 1/4	zii F		C1301	1-161-744-00	CERAMIC	0. 01uF			400V
P1206	1-249-425-11	CARRON	4.7K 5	¥ 1/	1W F			1-101-744-00		100uF		20%	50V
	1-249-425-11		4. 7K 5		## F		4	1-124-122-11		4. 7uF		20%	100V
	1-249-425-11		4.7K 5		17 F			1-124-927-11		4. rur 47uF		20%	50V
	1-249-425-11		100 5		1W F		1	1-124-510-11		3300uF		20%	25V
	1-217-151-00			0.2			1 21318	1 124 000 00	DDDC1	JJJJULE		₩ 0 /0	201
777/17/10	T 711 101 00	ייייי יייייי	. 11111	0. 2			C1348	1-164-159-11	CERAMIC	0. 1uF			50V
R1211	1-249-417-11	CARBON	1K 5	% 1/4	₩ F		010.10	- 10. 100 11		J. 141		(*4	5, 6, 7, D259)
	1-249-431-11		15K 5				C1362	1-124-916-11	ELECT	22uF		20%	63V
	1-249-441-11		100K 5				01002	_ 12. 010 11					-2.
	1-249-421-11		2. 2K 5		W F								
	1-249-421-11		2. 2K 5		1W F								
RIZIO	1 243 421 11	Childon	2. DI 0	U 1/-	111 1		I	Note:		Note:			
								The compone	ents identi-	Les co			dentifiés par
								fied by mark					ont critiques
								ted line with are critical for		pour la Ne les			que par une
							- 39 —	Replace only	with part				ıméro spéci-
								number speci		fié.			-

POWER SUPPLY

Ref. No. Part No. Description Remarks	Ref. No. Part No. Description Remarks
< CONNECTOR >	▲ F1303 1-532-203-00 FUSE 2A (D209, *9, 10) ▲ F1303 1-532-286-00 FUSE 2. 5A (A27, D209, *9, 10)
* CN1301 1-564-321-00 PIN, CONNECTOR 2P CN1311 1-506-468-11 PIN, CONNECTOR 3P	ΔF1303 1-576-104-11 FUSE 2A (*8) ΔF1304 1-532-203-00 FUSE 2A (D209, *9, 10)
< DIODE >	ΔF1304 1-532-286-00 FUSE 2.5A (A27, D209, *9, 10)
D1307 8-719-002-60 DIODE UZL-33L	 ΔF1304 1−576−104−11 FUSE 2A (*8)
D1309 8-719-014-66 DIODE UZP-5.6B D1311 8-719-200-82 DIODE 11ES2	ΔF1305 1-532-286-00 FUSE 2. 5A (A27, D209, *9, 10) ΔF1305 1-576-105-11 FUSE 2. 5A (*8, 11)
D1370 8-719-200-82 DIODE 11ES2	ΔF1306 1-532-286-00 FUSE 2.5A (48, 11) ΔF1306 1-532-286-00 FUSE 2.5A (A27, D209, *9, 10)
D1321 8-719-987-63 DIODE 1N4148M	 ΔF1306 1-576-105-11 FUSE 2. 5A (*8,11)
D1322 8-719-987-63 DIODE 1N4148M	△T1301 1-423-431-11 TRANSFORMER, POWER (*11)
D1354 8-719-200-82 DIODE 11ES2 D1355 8-719-200-82 DIODE 11ES2	△T1301 1-423-437-11 TRANSFORMER, POWER (D209) △T1301 1-423-437-21 TRANSFORMER, POWER (*8, 9, 10)
D1000 0 110 200 02 D10DL 11L02	△T1301 1-423-431-21 TRANSFORMER, FOWER (*8, 9, 10)
< TRANSISTOR >	ΔT1301 1-423-438-21 TRANSFORMER, POWER (*2)
Q1301 8-729-141-83 TRANSISTOR 2SA473	****************
< RESISTOR >	ACCESSORIES & PACKING MATERIALS ***********************************
R1303 1-249-421-11 CARBON 2.2K 5% 1/4W F	
R1304 1-249-425-11 CARBON 4.7K 5% 1/4W F	1-465-963-11 COMMANDER, STANDARD (RM-S271)
R1391 1-202-725-00 SOLID 3.3M 10% 1/2W (*11)	1-501-374-11 ANTENNA, LOOP (*4,5,7,8, D259:AE2) 1-501-536-11 ANTENNA (*4,5,7,8, D259:AE2)
< RELAY >	1-696-860-11 CORD, CONNECTION 13P (*4, 5, 7, 8, D259: AE2)
	* 3-703-713-41 STICKER, SONY SYMBOL (10)
RY1301 1-515-720-11 RELAY	
RY1301 1-515-738-11 RELAY, POWER	3-707-584-01 COVER, BATTERY
< TRANSFORMER >	3-756-331-41 MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/PORTUGUESE) (D209:AE2)
△T1302 1-449-723-31 TRANSFORMER, POWER (EXCEPT *11)	3-756-331-51 MANUAL, INSTRUCTION (GERMANY/DUTCH/ SWEDISH/ITALIAN) (D209:AE2,*4)
△T1302 1-450-786-11 TRANSFORMER, POWER (*11)	3-756-331-61 MANUAL, INSTRUCTION (DANISH/FINNISH) (*5)
	3-756-333-41 MANUAL, INSTRUCTION (ENGLISH/FRENCH/
< VOLTAGE SELECTION >	SPANISH/PORTUGUESE) (D259: AE2)
△VS1301 1-572-266-11 SWITCH, VOLTAGE SELECTION (A27)	3-756-333-51 MANUAL, INSTRUCTION (GERMANY/DUTCH/ SWEDISH/ITALIAN) (D259:AE2,*8)
(12.7)	* 4-956-903-01 INDIVIDUAL CARTON (D209:AE2, *4)
******************	* 4-958-606-01 CUSHION (D209:AE2,*4)
MISCELLANEOUS ********	****************

18 1-590-578-11 WIRE, FLAT TYPE (19 CORE)	HARDWARE LIST
19 1-590-576-11 WIRE, FLAT TYPE (11 CORE) 19 1-590-576-21 WIRE, FLAT TYPE (11 CORE) (D209)	*********
$\triangle 64$ 1-575-651-11 CORD, POWER (*4, , 5, 6, 7, 8, 9)	#1 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S
△64 1-575-653-11 CORD, POWER (A27:E)	#2 7-685-871-01 SCREW +BVTT 3X6 (S)
△64 1-690-608-11 CORD, POWER (A27:AU2)	
△64 1-690-609-21 CORD, POWER (*11)	Note: Note:
△64 1-696-570-21 CORD, POWER (*3, 10)	The components identi- Les composants identifiés par
△64 1-696-848-21 CORD, POWER (*1)	fied by mark \bigwedge or dotted line with mark \bigwedge pour la sécurité.
△F1301 1-532-350-00 FUSE 4A (A27, D209, *9, 10)	are critical for safety. Ne les remplacer que par une
△F1301 1-576-108-11 FUSE 4A (*8, 11)	Replace only with part pièce portant le numéro spécinumber specified.
△F1302 1-532-350-00 FUSE 4A (A27, D209, *9, 10)	
△F1302 1-576-108-11 FUSE 4A (*8,11)	English

English

HTC-D259/D359

SERVICE MANUAL



Canadian Model HTC-D259

AEP Model UK Model E Model Australian Model HTC-D259/D359

> PX Model HTC-D359

HTC-D259 is the compact disc deck in LBT-A27CDM / D259CD.

HTC-D359 is the compact disc deck in LBT-A37CDM / D359CD.

SPECIFICATIONS

Cassette deck

Recording system 4-track 2-channel stereo Frequency response

DOLBY NR OFF

With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)

Wow and flutter 0.1% (WRMS)

Compact disc player

Laser Semiconducotr laser

Wavelength 780 - 790 nm Frequency response 2 Hz to 20 kHz \pm 0.5 dB Signal-to-noise ratio More than 93 dB Dynamic range More than 90 dB

Harmonic distortion Less than 0.008% (1 kHz) Channel separation More than 90 dB (1 kHz)

General

Mass Approx. 6.9 kg

Approx. $355 \times 225 \times 385$ mm Dimensions (w/h/d, including projections)

Speaker systems (SS-D270)

Speaker system

Mass Approx. 6.3 kg, per speaker Approx. $260 \times 505 \times 210 \text{ mm}$ **Dimensions**

(w/h/d)

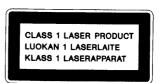
Design and specifications are subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol \square are trademarks of Dolby Laboratories Licensing Corporation.

CD	Model Name Using Similar M	lechanism	HCD-H150/H500
Section	Base Unit Name		BU-5BD3
DECK Section	Model Name Using Similar M	lechanism	HCD-H170 / H170K/H700
	Tape Transport Mechanism	DECK A	TCM-190RA12CL
	Type	DECK B	TCM-190RB22CI

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



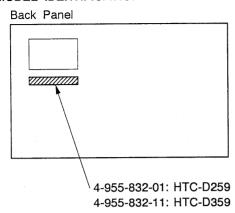
Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.





MODEL IDENTIFICATION



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

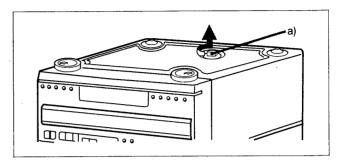
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Note on the Transit key



The transit key (a)) on the bottom exterior of the CD player protects the optical system against shock during transportation. Before operating the unit, be sure to remove the key by following the instructions on the label, and store it in a safe place. When transporting the unit, put the key to its original position and lock it in place.

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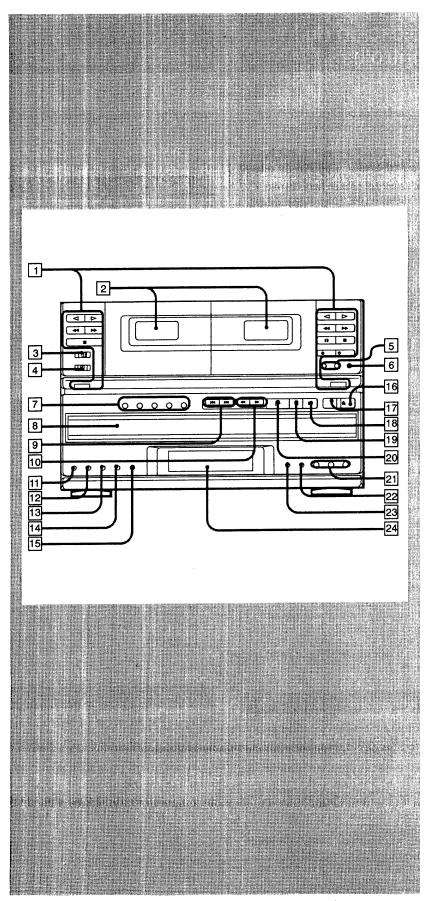
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ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

SECTION 1 GENERAL



Location of Controls

Cassette Deck

- 1 Tape operation buttons
 - ■■ Leftward fast winding/AMS*
 - ►► Rightward fast winding/AMS*
 - Forward play
 - Reverse play
 - Stop
 - **≜** EJECT
 - PAUSE (deck B only)
 - O REC MUTE (record muting) (deck B only)
 - REC (record) (deck B only)
- 2 Cassette holders
- 3 DOLBY NR (noise reduction) switch (32, 82)
- 4 DIRECTION MODE selector (28, 32, 38, 82)
- 5 DUBBING SPEED (HIGH/NORMAL) button (38, 40)
- 6 CD SYNCHRO button (82, 86) (HTC-D359)

Compact Disc Player

- 7 DISC 1 5 buttons (42, 46, 50, 52, 54)
- 8 Disc tray
- 9 ► (AMS*) buttons (46, 52, 54, 88, 96)
- 10 **◄◄/▶►** (manual search) buttons (48, 88, 96)
- 11 TIME button (44)
- 12 FADER button (94)
- 13 EDIT/TIME FADE button (88, 94)
- 14 CHECK (program check) button (54)
- 15 CLEAR (program clear) button (56)
- 6 A OPEN/CLOSE button (42)
- DISC SKIP button (42, 46)
- 18 (stop) button (42)
- 19 **II** (pause) button (42)
- 20 (play) button (42)
- 21 PLAY MODE button PROGRAM button (52, 86) SHUFFLE button (50) CONTINUE button (42)
- 2 MUSIC SCAN button (58)
- 23 REPEAT button (60)
- 24 Display window
- * AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

Precautions:

 Clean the following parts with a denatured-alcoholmoistened swab;

record/playback/erase head

pinch roller

rubber belts

capstan

idler

Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g · cm (0.49 to 0.83 oz · inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

Chucking Arm Height Adjustment

This Adjustment should be performed after the electrical adjustment and on replacing adjusting screw, magnet, or chucking pulley.

Procedure:

- 1. Set disc (YEDS-18) to the optical pick-up block. (Fig. A)
- 2. Adjust the bracket (press pulley) to the center of the magnet with adjusting screw. (Fig. B)

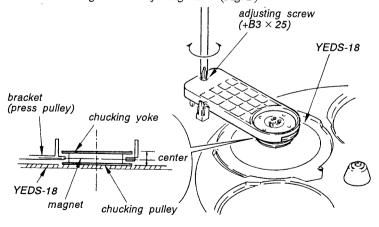


Fig. B

Fig. A

2-2. ELECTRICAL ADJUSTMENTS

0 dB=0.775 V (AF)

Precautions:

CASSETTE DECK SECTION

- Demagnetize the record / playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- 3. After the adjustments, apply suitable locking compound to the parts adjusted.
- 4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment,)
- 6. The adjustments should be performed for both L-CH and $\mbox{\ensuremath{R-CH}}\xspace$.
- Switches and controls should be set as follows unless otherwise specified.

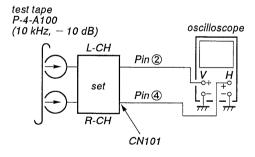
DOLBY NR switch: OFF
TAPE: TYPE I

Туре	Signal	Used for
P-4-A100	6.3kHz, -10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

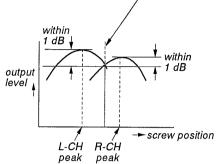
Record / Playback Head Azimuth Adjustment

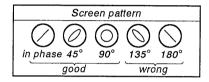
Note: Perform this adjustments for both decks. **Procedure**:

1. Mode: FWD playback



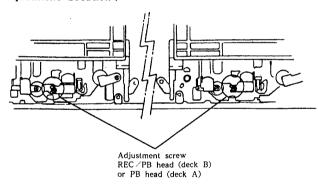
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak,





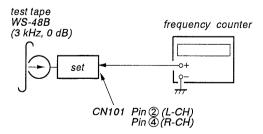
3. After the adjustments, apply suitable locking compound to the parts adjusted,

Adjustment Location:



Tape Speed Adjustment DECK A DECK B

Mode: playback



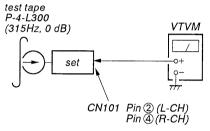
- High speed adjustment (Must be first Adjustment B deck)
 - Push HIGH speed button.
 - 2. Adjust RV71 so that the frequency counter reads $6,000\pm30$ Hz.

- · NORMAL speed adjustment
 - 1. Push NORMAL speed button.
 - 2. Adjust RV72 so that the frequency counter reads $3,000\pm15$ Hz.

(See right for Adjusting Parts Location)

Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Playback Level Adjustment DECK A DECK B Procedure :



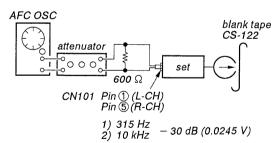
Mode: FWD playback
DECK-A side RV11 (L-CH), RV21 (R-CH)
DECK-B side RV11 (L-CH), RV21 (R-CH)
so that the limits below are satisfied.

Adjustable limits:

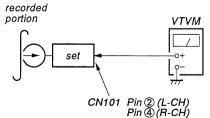
CN101 level: $-7.7 \pm 0.5 dB$ (0.48 -0.67V) level difference between the channels: within 1.0dB (See right for Adjusting Parts Location)

Record BIAS Current Adjustment DECK B Procedure:

1. Mode: record



Mode : Playback



Playback the signal recorder in step 1. Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

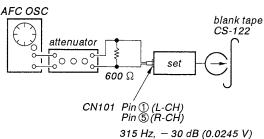
(See right for Adjusting Parts Location)

Record Level Adjustment DECK B Setting:

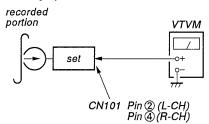
TAPE: TYPE I

Procedure:

1. Mode: record



2. Mode: playback

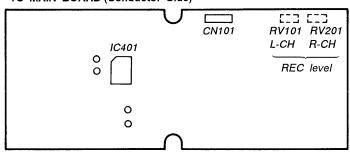


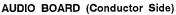
3. Playback the signal recorded in step 1. Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

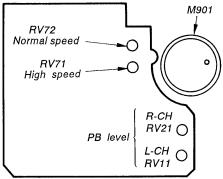
Adjustable : $-30.0 \pm 0.5 dB (0.0231 - 0.026V)$ (See right for Adjusting Parts Location)

• Adjusting Parts Location

TC MAIN BOARD (Conductor Side)





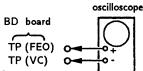


CD SECTION

Note:

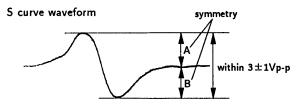
- CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10M\Omega$ impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



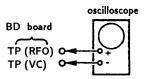
Procedure:

- Connect oscilloscope to test point TP (FEO) on BD board.
- 2. Connect between test point TP (FES) and TP (VC) by lead wire.
- 3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- 4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.



- 5. After check, remove the lead wire connected in step 2.
- Note: Try to mesure several times to make sure that the ratio of A:B or B:A is more than 10:7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

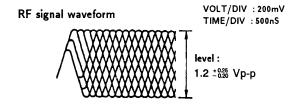


Procedure:

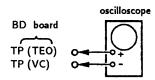
- 1. Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape "\$\langle\$" can be clearly distinguished at the center of the waveform.

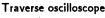


E-F Balance Check



Procedure:

- Connect test point TP (TEST) to ground and TP (TES) to TP (VC) with lead wire.
- Connect oscilloscope to test point TP (TEO) on BD board.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.



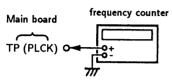


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- Confirm that reading on frequency counter is
 3218MHz.

Focus/Tracking Gain

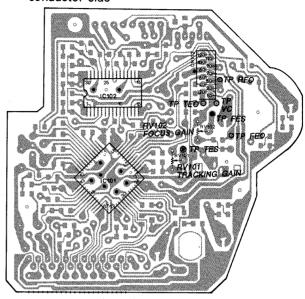
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

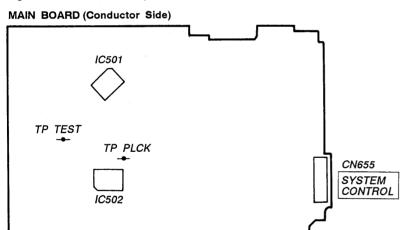
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations: [BD board]

- conductor side -

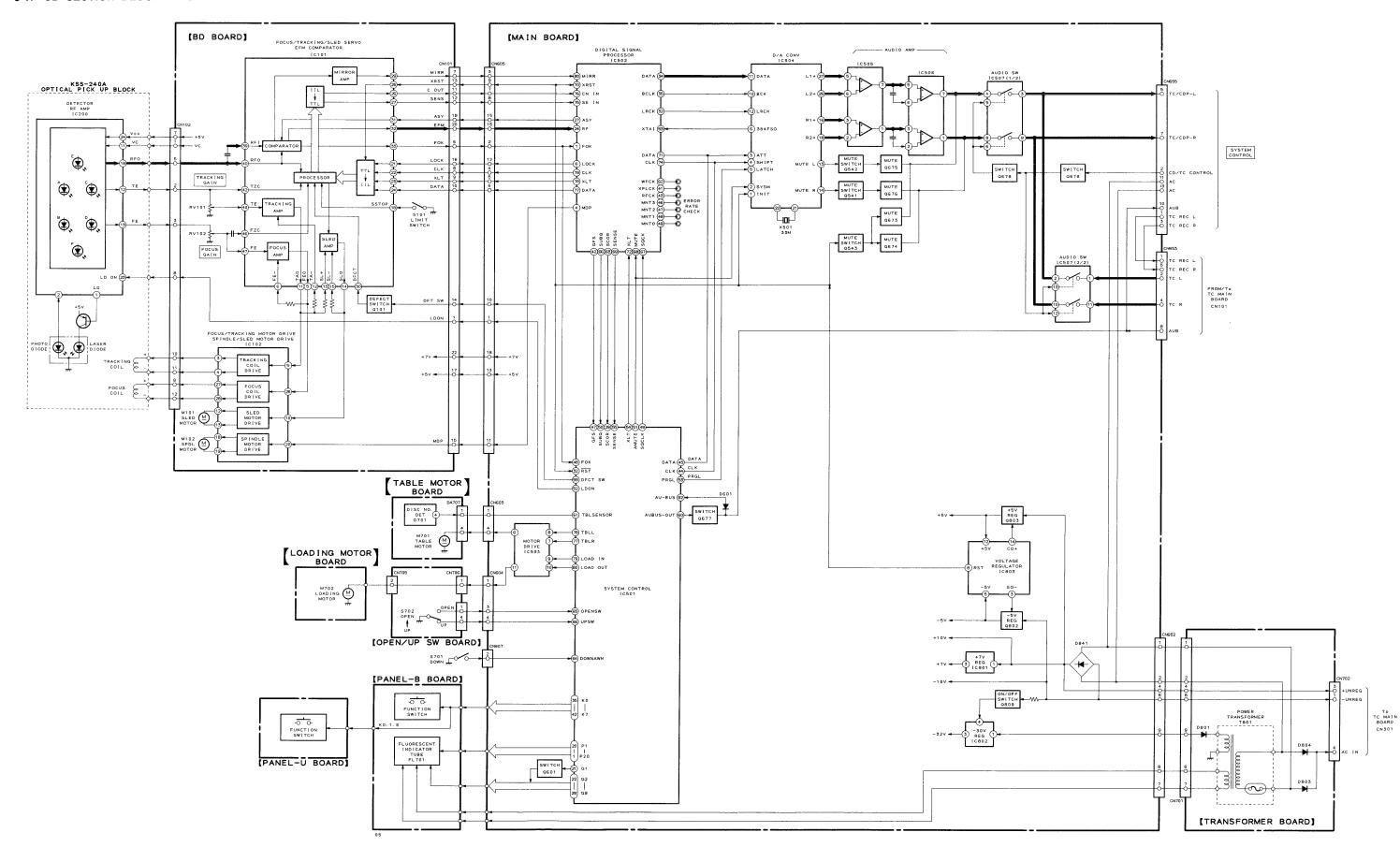


Adjustment Location;

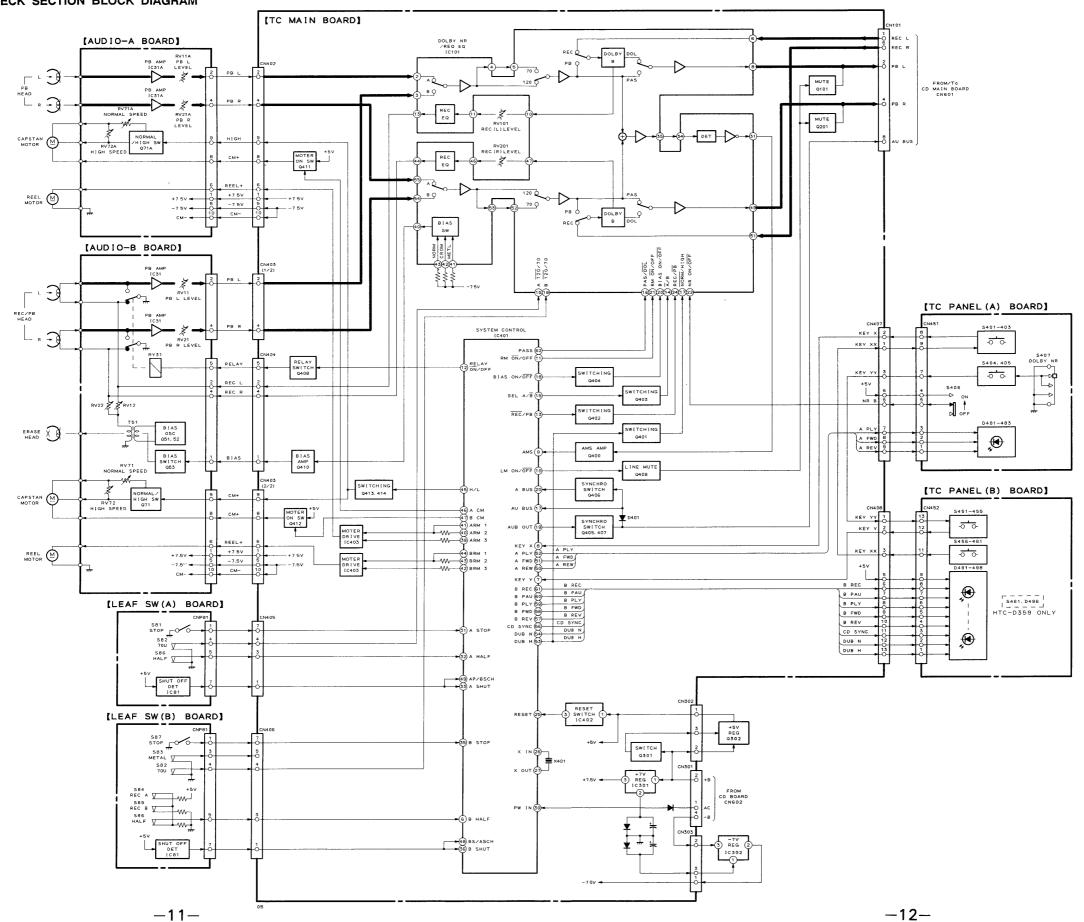


SECTION 3 DIAGRAMS

3-1. CD SECTION BLOCK DIAGRAM

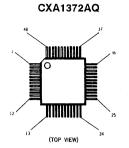


3-2. CASSETTE DECK SECTION BLOCK DIAGRAM

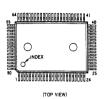


HTC-D259/D359

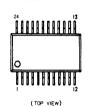
• Semiconductor Lead Layouts



CXD2500BQ CXP50120-024Q



CXD2565M



HA12171NT



LA6532M



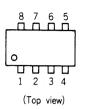
M50964-256FP



M51943BSL



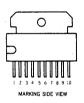
M5218AP



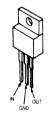
M5293L



TA7272P



TA7807S



μPC4570G2

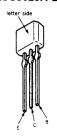


(TOP VIEW)





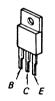
2SA1175-HFE 2SC3623A-LK



2SB1013-4



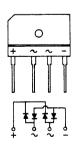
2SB1094-LK



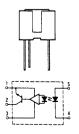
2SD774-34



D2SB20



GP-1A521



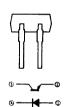
HZS7C2L UZL-7L1 UZL-7L2 UZ-2.7BS 11ES2



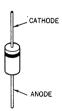
MA110



NJL5165K-B



1N4148M



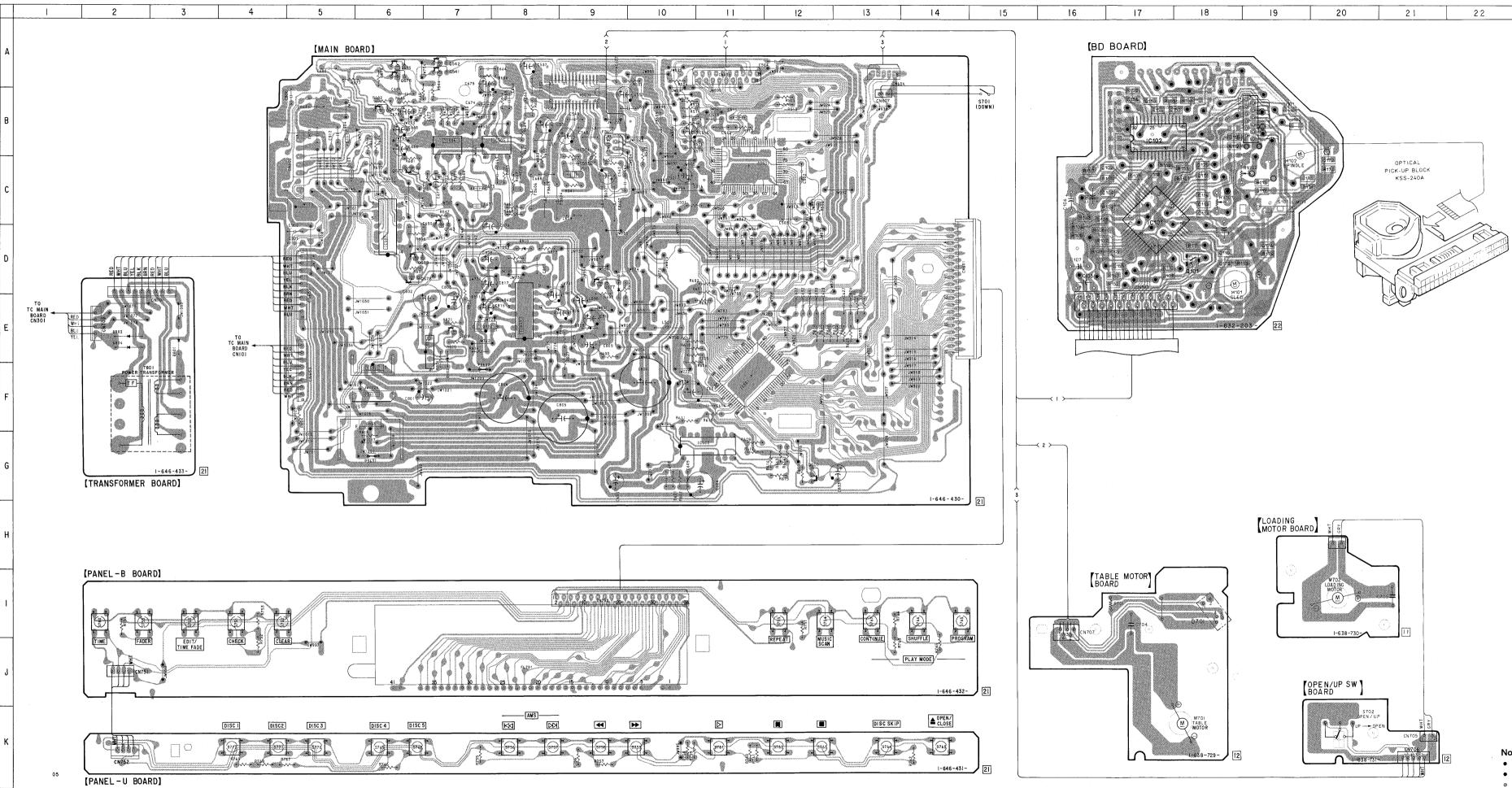
SEL2210S-CD SEL2410E-TH10



SEL2810A



3-3. CD SECTION PRINTED WIRING BOARDS

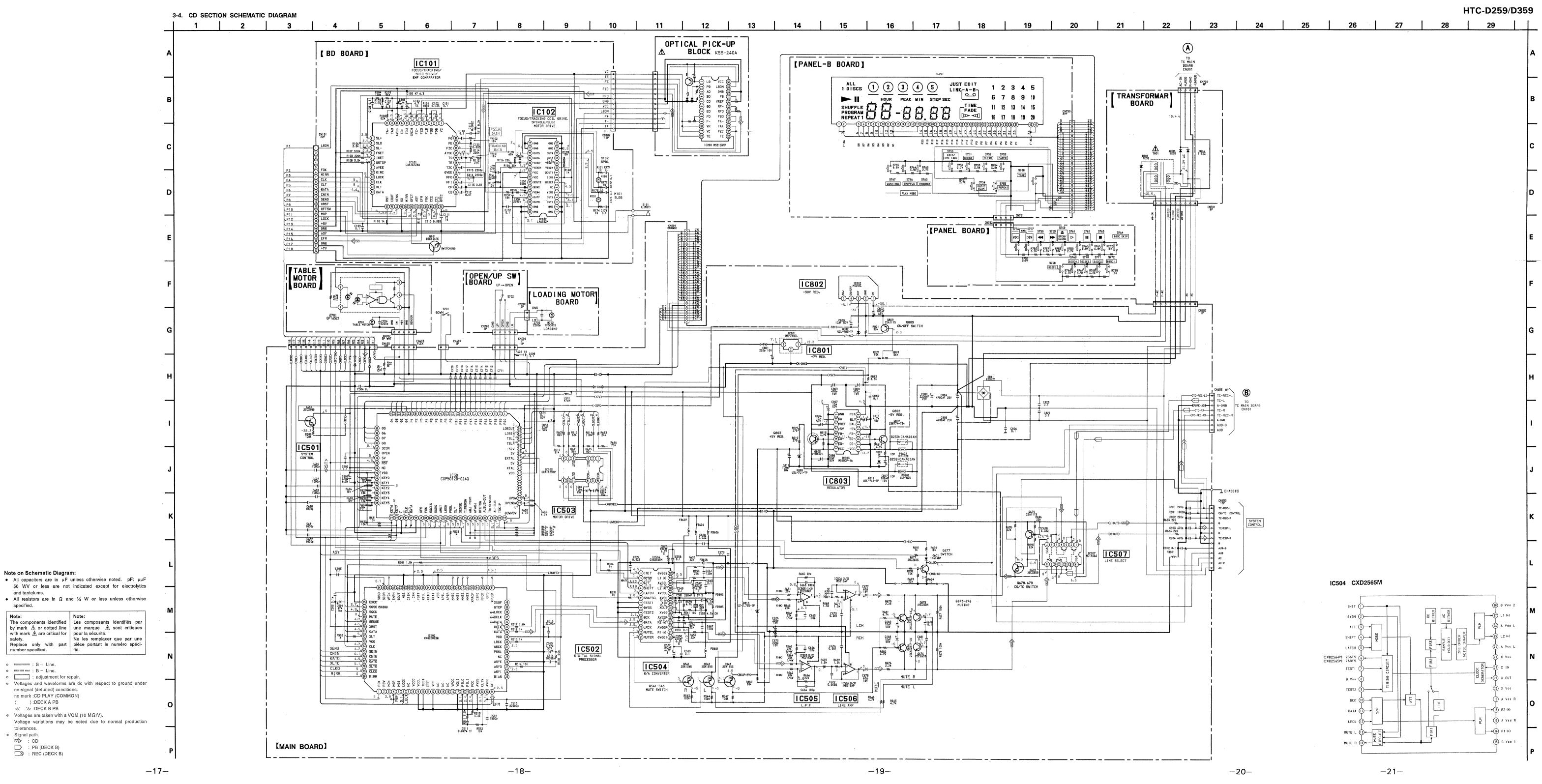


Semiconductor

Location	n
Ref. No.	Location
D601 D701 D801 D802 D803 D804 D808 D810 D811 D841	D-9 I-18 E-3 E-7 E-2 E-2 E-9 D-8 D-7 F-6
IC101 IC102 IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC801 IC802 IC803	C-17 B-17 F-11 C-11 G-11 B-9 B-8 B-7 D-6 F-6 E-7 E-8

Note on Printed Wiring Board:

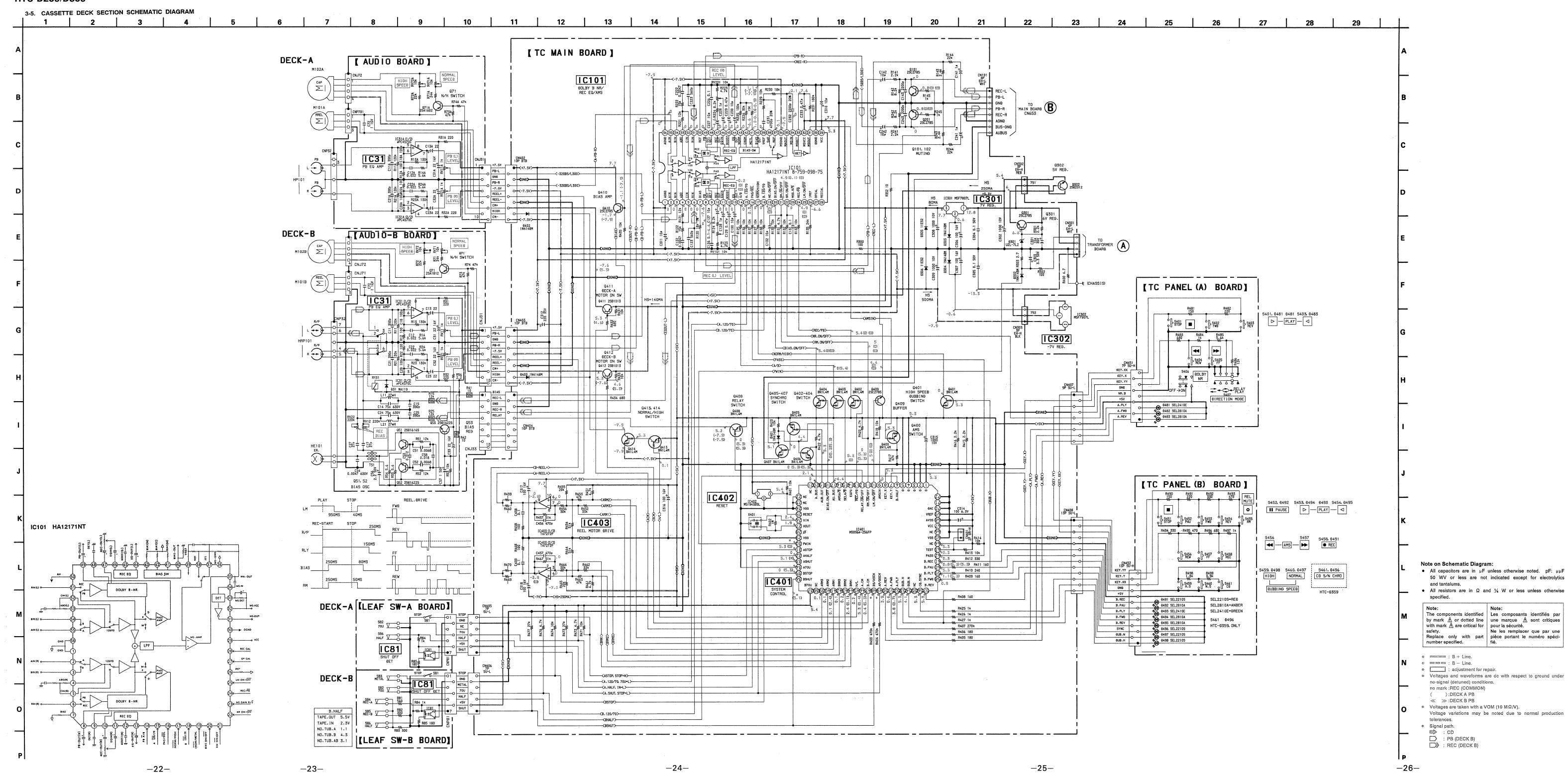
- o----: parts extracted from the component side.
- Pattern from the side which enables seeing.
- Pattern of the rear side.



and tantalums.

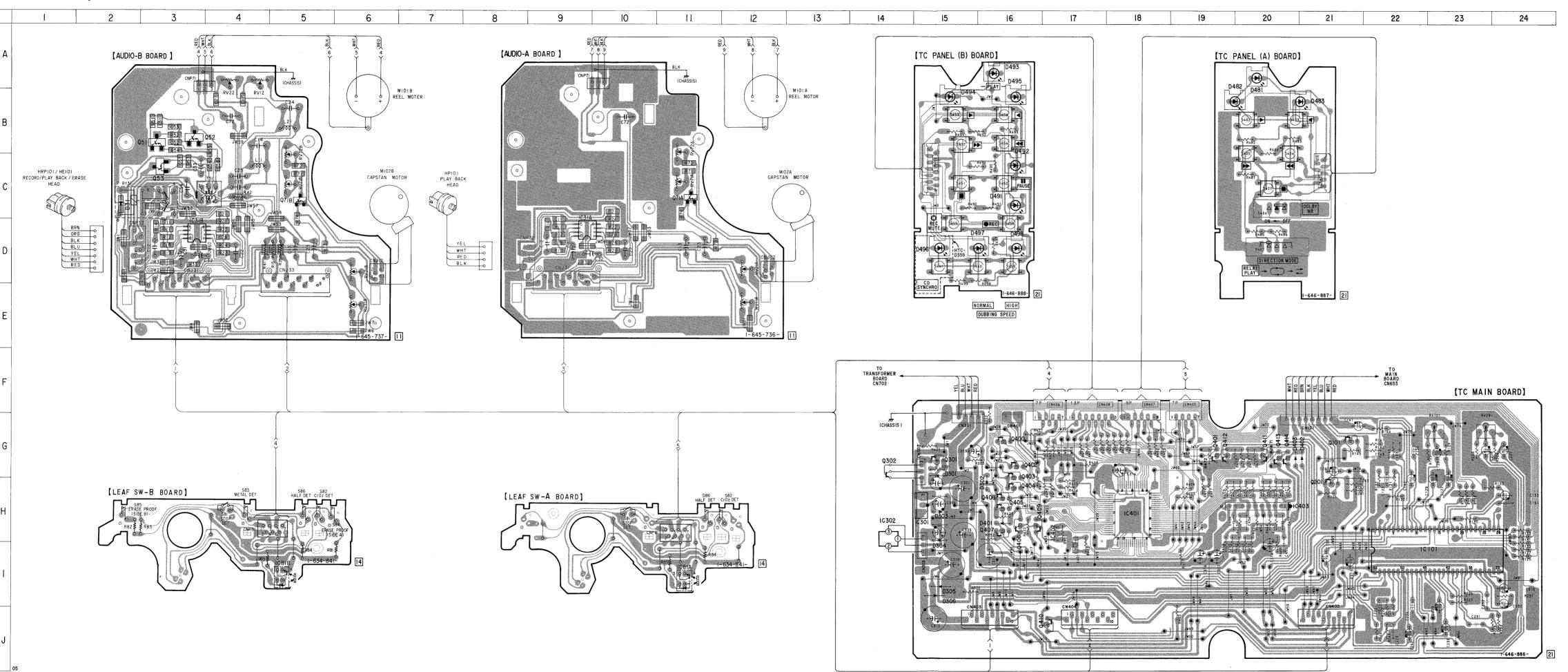
specified.

tolerances. Signal path.



3-6. CASSETTE DECK SECTION PRINTED WIRING BOARDS

See page 13 for Semiconductor Lead Layouts.



Semiconductor

Location	on
Ref. No.	Location
D31 D301 D302 D303 D304 D305 D306 D401 D402 D403 D481 D482 D483 D491 D492 D493 D494 D495 D496 D497 D498	C-2 G-15 H-16 H-15 I-15 I-15 H-16 G-21 G-20 A-20 B-19 B-21 C-16 A-16 B-15 D-16 D-16
IC31A IC31B IC101 IC301 IC302 IC401 IC402 IC403	D-9 D-3 I-22 H-15 H-14 H-18 H-17 H-20
Q51 Q52 Q53 Q71A Q71B Q101 Q201 Q301 Q302 Q400 Q401 Q402 Q403 Q404 Q405 Q406 Q407 Q408 Q409 Q410 Q411 Q412 Q413 Q414	B-3 B-3 C-3 C-11 C-5 G-21 H-21 G-15 G-14 G-16 G-16 H-16 H-16 H-16 H-16 H-16 H-16 G-19 G-20 G-20 G-20

Note on Printed Wiring Board:

o----: parts extracted from the component side.

SECTION 4 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.
- Abbreviations
 AUS: Australian Model
 IT: Italian Model

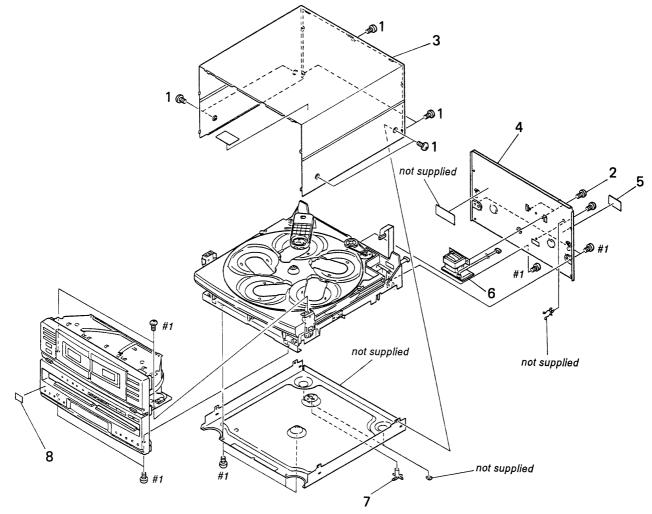
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la marque sécurité.

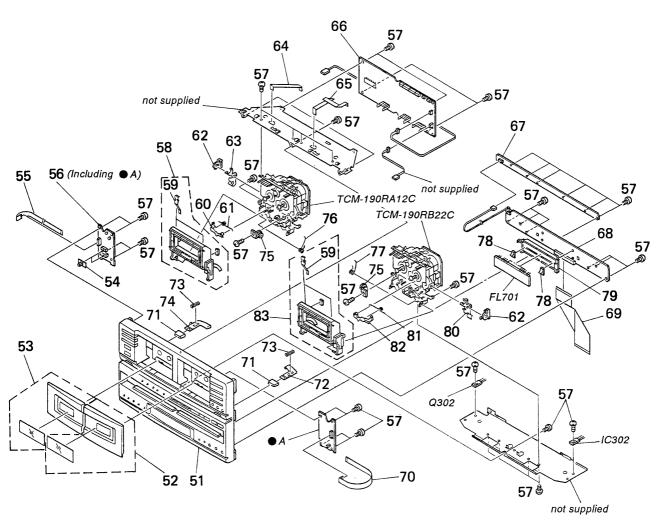
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CASE SECTION



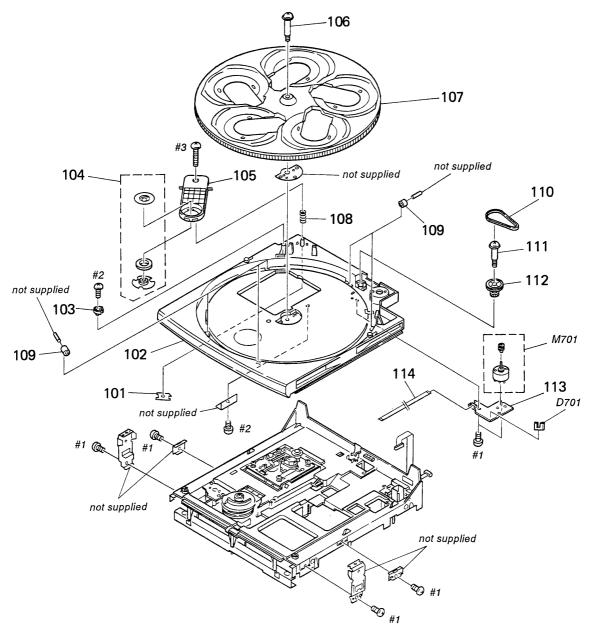
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-01	SCREW (CASE 3 TP2) (D359)		* 5	4-941-548-01	LABEL, CLASS 1	
1	3-704-366-01	SCREW (CASE) (M3X8) (D259)				(D259: AEP, UK, E, IT, AUS, D359)	
2	3-704-515-31	SCREW (BV/RING)		* 6	1-646-433-21	TRANSFORMER BOARD	
* 3	4-955-795-31	CASE		7	4-937-945-01	PLATE (TRANSPORT), LOCK	
* 4	4-955-832-01	PANEL, BACK (D259)		* 8	3-703-713-41	STICKER, SONY SYMBOL (10) (D359	1)
* 4	4-955-832-11	PANEL, BACK (D359)					

(2) FRONT PANEL ASSEMBLY SECTION



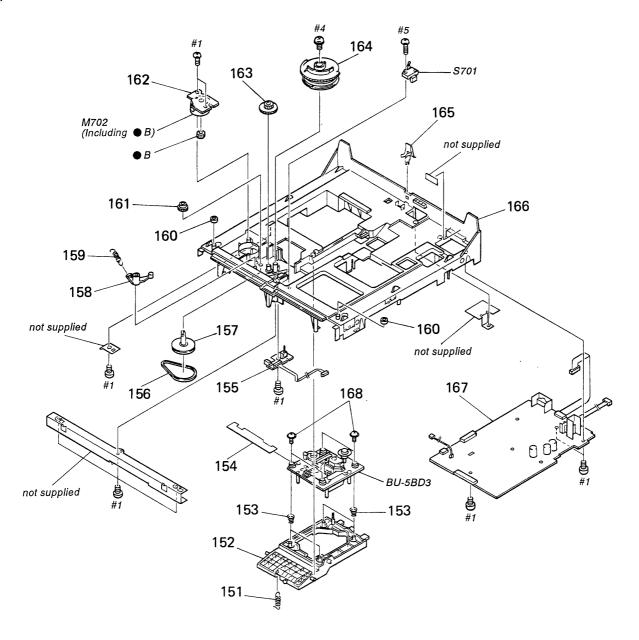
Ref. No.	Part No.	Description	Remark R	ef. No.	Part No.	Description	Remark
51	X-4943-306-1	PANEL ASSY, FRONT (D259)		69	1-751-055-31	WIRE, FLAT TYPE (37 CORE) (D259))
51	X-4943-307-1	PANEL ASSY, FRONT (D359)		70	1-690-589-31	WIRE, FLAT TYPE (13 CORE) (D359))
52	X-4943-311-1	LID (B) ASSY, CASSETTE		70	1-751-210-11	WIRE, FLAT TYPE (13 CORE) (D259))
53	X-4943-310-1	LID (A) ASSY, CASSETTE		71	4-935-355-41	BUTTON (EJECT)	
54	4-948-273-01	KNOB, SLIDE	*	72	4-955-821-11	LEVER (R), EJECT	
55	1-751-209-11	WIRE, FLAT TYPE (9 CORE) (D259)		73	3-500-131-00	SPRING, COMPRESSION	
* 56	A-4357-003-A	SW BOARD, COMPLETE (D259)	*	74	4-955-820-11	LEVER (L), EJECT	
* 56	A-4357-196-A	SW BOARD, COMPLETE (D359)		75	3-354-963-01	DAMPER	
57	4-951-620-01	SCREW (2.6X8), +BVTP		76	3-354-959-01	SPRING (LOADING L), TORSION	
58	X-3340-194-1	HOLDER (L) ASSY, CASSETTE		77	3-354-960-01	SPRING (LOADING R), TORSION	
59	3-308-823-11	SPRING	*	78	4-949-935-31	CUSHION (FL)	
60	3-354-955-01	LEVER (EJ SAFTY LEVER L)	*	79	4-955-792-11	HOLDER (5M), FL TUBE	
61	3-354-961-01	SPRING (EJ SAFTY SPRING L)	*	80	3-354-954-01	LEVER (LOCK LEVER R)	
62	3-354-957-01	JOINT (LOCK LEVER)		81	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
* 63	3-354-953-01	LEVER (LOCK LEVER L)		82	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
64	1-590-574-11	WIRE, FLAT TYPE (7 CORE)		83	X-3340-195-1	HOLDER (R) ASSY, CASSETTE	
65	1-590-485-11	WIRE, FLAT TYPE (7 CORE)		FL701	1-519-721-31	INDICATOR TUBE, FLUORESCENT	
* 66	A-4356-892-A	TC MAIN BOARD, COMPLETE		IC302	8-759-604-95	IC M5F79M07L	
* 67	1-646-431-21	PANEL-U BOARD		Q302	8-729-209-15	TRANSISTOR 2SD2012	
* 68	1-646-432-21	PANEL-B BOARD					

(3) TURNTABLE ASSEMBLY SECTION



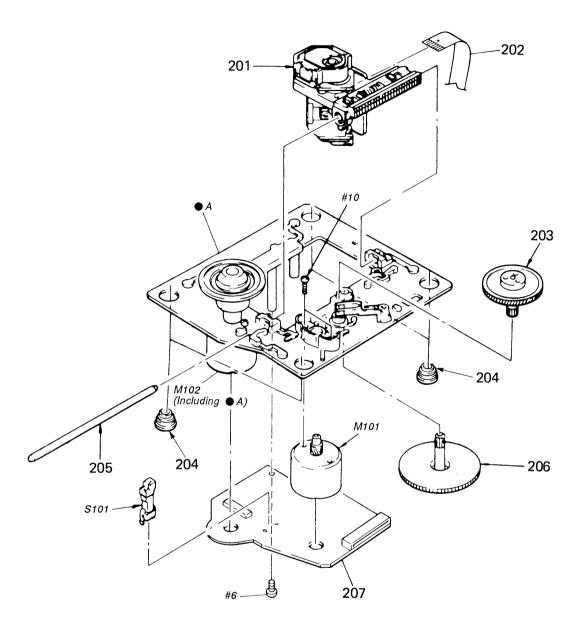
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	4-926-388-01	BRACKET (ADJUSTMENT)		109	X-4924-457-1	ROLLER ASSY	
102	4-955-787-11	TABLE, DISK		110	4-926-399-01	BELT	
* 103	4-949-226-11	PLATE, LOCK		111	4-923-597-01	SCREW, STEP	
* 104	1-452-538-11	MAGNET		112	4-934-380-01	PULLEY (R)	
* 105	4-930-506-02	BRACKET (PRESS PULLEY)		* 113	1-638-729-11	TABLE MOTOR BOARD	
106	4-926-384-01	SCREW, STEP		114	1-590-849-11	WIRE, FLAT TYPE (5 CORE)	
* 107	4-926-383-01	TABLE (B), DISK		D701	8-719-970-19	DIODE GP-1A521	
108		SPRING, COMPRESSION	ļ	M701	A-4604-585-A	MOTOR ASSY, ROTARY	

(4) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-937-911-01	SPRING, TENSION		* 162	1-638-730-11	LOADING MOTOR BOARD	
* 152	4-934-373-01	BRACKET (BU)		163	4-934-381-01	GEAR (LOADING C)	
153	4-949-385-01	SPRING (D), COIL		164	4-934-391-01	GEAR (LOADING A)	
154	1-537-476-11	JUMPER, FILM (WITH TERMINAL)		* 165	4-943-996-01	SPRING, LEAF	
* 155	1-638-731-11	OPEN/UP SW BOARD		* 166	4-943-997-01	CHASSIS	
156		BELT (TIMING)		* 167	A-4356-887-A	MAIN BOARD, COMPLETE	
157	X-4941-529-1					(EXCEPT D259:Canadian)	
158	4-917-519-01	LEVER, SET		* 167	A-4360-507-A	MAIN BOARD, COMPLETE (D259:Car	ıadian)
159	4-924-412-01	SPRING (B), TENSION		168	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 160	4-951-619-01	CUSHION (A)		S701	1-572-713-11	SWITCH, PUSH (WITH CONNECTOR)	
161	4-934-375-01	GEAR (LOADING B)		M702	A-4604-834-A	MOTOR ASSY, LOADING	

(5) OPTICAL PICK-UP BLOCK ASSEMBLY (BU-5BD3)

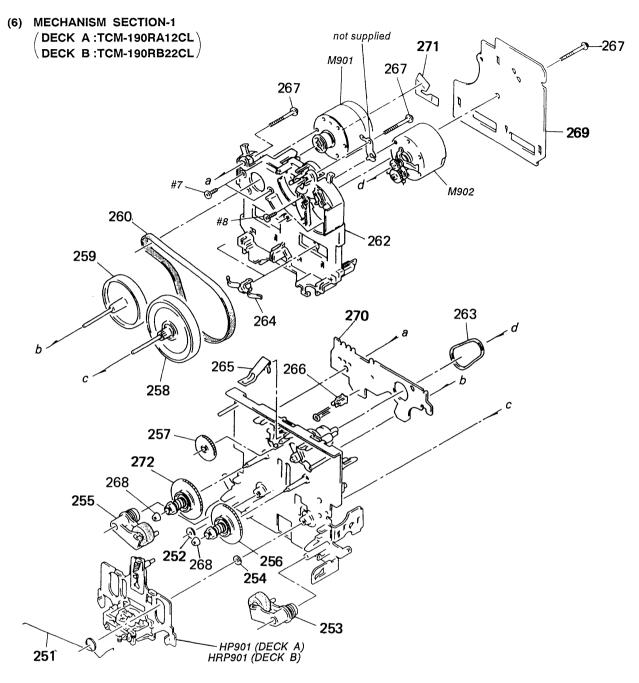


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remar
<u>^</u> 201	8-848-144-11	DEVICE, OPTICAL KSS-240A		206	4-917-564-01	GEAR (P), FLATNESS	
202	1-575-001-11	WIRE, FLAT TYPE (12 CORE)		* 207	A-4617-371-A	BD BOARD, COMPLETE	
203	4-917-567-01	GEAR (M)		S101	1-572-085-11	SWITCH, LEAF (LIMIT	IN)
204	4-933-126-01	INSULATOR (A)		M101	X-4917-504-1	MOTOR ASSY (SLED)	
205	4-917-565-01	SHAFT, SLED		M102	X-4917-523-3	BASE (OUTSERT) ASSY	(SPINDLE MOTOR)

The components identified by mark $\hat{\Lambda}$ or dotted line with mark. \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

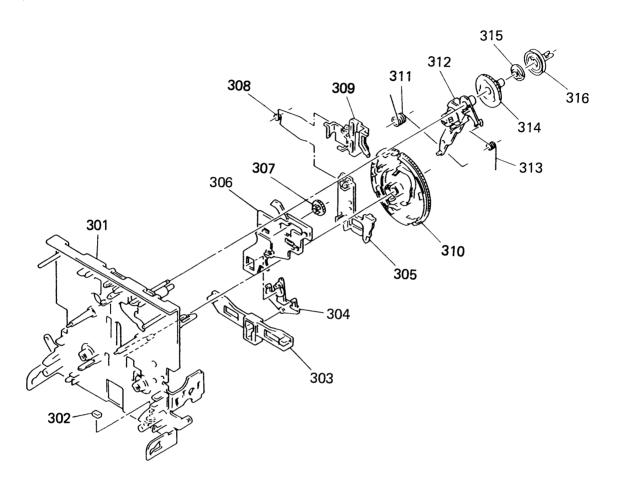
Remark



Ref. No.	Part No.	Description	Remark	Ref.	No.	Part No.	Description	Remark
251	3-359-455-01	SPRING, TORSION		26	 65	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	
252	3-356-714-01	WASHER		26	66	3-343-419-01	HOLDER (S SENSOR A)	
253	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY		26	67	3-359-414-01	SCREW (+PTPWH 2X23)	
254	3-356-713-01	WASHER		26	8	3-362-308-01	CAP (REEL)	
255	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY						
				* 26	69	A-2006-609-A	AUDIO BOARD, COMPLETE (DECK A)	
256	X-3359-404-1	TABLE ASSY, REEL		* 26	39	A-2006-610-A	AUDIO BOARD, COMPLETE (DECK B)	
257	3-359-424-01	GEAR (REV GEAR)		* 27	70	1-634-841-14	SW-A BOARD	
258	X-3359-406-1	FLYWHEEL (FWD) ASSY		27	71	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
259	X-3359-410-1	FLYWHEEL (REV) ASSY		27	72	X-3362-078-1	TABLE ASSY (B), REEL	
260	3-359-417-01	BELT (FLAT), CAPSTAN						
				HP	901	A-2003-838-A	DECK ASSY, HEAD (DECK A)	
* 262	3-359-436-01	BASE (THRUST RETAINER), FITTING		HR	RPE901	A-2004-190-A	DECK ASSY, HEAD (DECK B)	
263	3-359-466-01	BELT (FR), SQUARE		M9	901	X-3359-417-1	MOTOR ASSY (CAPSTAN)	
264	3-575-321-00	RETAINER, THRUST, CAPSTAN		M 9	902	X-3363-501-1	MOTOR ASSY (REEL)	

(7) MECHANISM SECTION-2 / DECK A:TCM-190RA12CL

DECK B:TCM-190RB22CL/



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	X-3359-415-1	CHASSIS ASSY, MECHANICAL		309	3-359-429-01	SLIDER (BRAKE PLATE)	
302	3-359-469-01	SPACER		310	3-359-420-01	GEAR (CAM GEAR)	
* 303	3-359-425-01	SLIDER (REVERSE SLIDER)		311	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
304	3-359-426-01	LEVER (REVERSE LEVER)		312	X-3359-405-1	LEVER (FR ARM) ASSY	
* 305	3-359-427-01	SLIDER (LEVERSE SLIDER)		313	3-359-453-01	SPRING (FR ARM), TORSION	
* 306	3-359-415-01	SLIDER (TRIGGER SLIDER)		314	3-359-419-01	GEAR (FR GEAR)	
307	3-359-448-01	GEAR (TRIGGER)		315	3-359-421-01	CLUTCH (REEL DISK)	
308	3-359-454-01	SPRING, TORSION		316	3-359-418-01	PULLEY (FR PULLEY)	

AUDIO-A

AUDIO-B

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL:Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor. F:nonflammable

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, $u:\mu$, for example: $uA..:\mu A..:\mu PA..:\mu PA..$

uPB..: μPB.. uPC..: μPC.. uPD..: μPD..

• CAPACITORS uF: μF

When indicating parts by reference number, please include the board.

UH: μH

Abbreviations
AUS: Australian Model
IT: Italian Model

The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\underline{\Lambda}$ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Rem	ark	Ref. No.	Part No.	Description	n		Ren	nark
*	A-2006-609-A	AUDIO-A BOARD,						< TRANSIST	OR >			
						Q71	8-729-602-36	TRANSISTOR	2SA1602			
		< CAPACITOR >										
								< RESISTOR	>			
C11	1-163-131-00		390PF	5%	50V	D	4 040 000 00		40017	- 0.	4 /4 000	
C12	1-136-157-00		0. 022uF	5%	50V	R11	1-216-099-00				1/10W	
C13	1-124-234-00		22uF	20%	16V	R12	1-216-025-00			5%	1/10W	
C18		CERAMIC CHIP	100PF	5%	50V	R13	1-216-100-00				1/10W	
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	R14	1-216-067-00		5. 6K		1/10W	
						R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
C22	1-136-157-00	FILM	0. 022uF	5%	50V							
C23	1-124-234-00		22uF	20%	16V	R22	1-216-025-00			5%	1/10₩	
C28		CERAMIC CHIP	100PF	5%	50V	R23	1-216-100-00			5%	1/10₩	
C31	1-124-234-00	ELECT	22uF	20%	16V	R24	1-216-067-00		5. 6K	5%	1/10W	
C32	1-124-234-00	ELECT	22uF	20%	16V	R31	1-216-033-00			5%	1/10W	
						R32	1-216-033-00	METAL CHIP	220	5%	1/10₩	
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V							
						R71	1-216-082-00	METAL GLAZ	E 24K	5%	1/10W	
		< JACK >				R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	
						R73	1-216-089-00	METAL CHIP	47K	5%	1/10₩	
* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOARD			R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	
* CNJ72	1-580-411-11	SOCKET, CONNECT	OR 4P									
								< VARIABLE	RESISTOR >			
		< CONNECTOR >										
						RV11	1-241-627-11	RES, ADJ,	CARBON 1K			
* CNP32	1-580-772-11	PIN, CONNECTOR	(PC BOARD)	4P		RV21	1-241-627-11	RES, ADJ,	CARBON 1K			
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TYPE) 3P		RV71	1-241-630-11	RES, ADJ,	CARBON 10K			
						RV72	1-241-630-11	RES, ADJ,	CARBON 10K			
		< IC >				******	******	******	*****	****	******	****
IC31	8-759-106-02	IC uPC4570G2				*	A-2006-610-A	AUDIO-B BO	ARD, COMPLE	TE		

		< JUMPER RESIST	OR >									
TQ14	1 910 905 00	METAL CUID	0 50	1 /1 00				< CAPACITO	к >			
JW1	1-216-295-00		0 5%	1/10W		74.4	1 100 404 00	OPPANIA CO	ID OODE		Ee'	ror:
JW51	1-216-296-00		0 5%	1/8W		C11	1-163-131-00				5% 5%	50V
JW52	1-216-296-00		0 5%	1/8W		C12	1-136-157-00		0. 022	ur	5%	50V
JW53	1-216-296-00		0 5%	1/8W		C13	1-124-234-00		22uF		20%	16V
JW54	1-216-296-00	METAL CHIP	0 5%	1/8W		C14	1-136-273-91		75PF		5%	630
						C15	1-164-080-11	CERAMIC	390PF		10%	50V

AUDIO-B

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description			Remark
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	J W 58	1-216-296-00	METAL CHIP	0	5%	1/8W
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	J W 59	1-216-296-00	METAL CHIP	0	5%	1/8W
C22	1-136-157-00	FILM	0. 022uF	5%	50V	J W 60	1-216-296-00	METAL CHIP	0	5%	1/8W
C23	1-124-234-00	ELECT	22uF	20%	16V	JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
C24	1-136-273-91		75PF	5%	630V	. –					_,
C25	1-164-080-11	CFRAMIC	390PF	10%	50V			< COIF >			
C27		CERAMIC CHIP	27PF	5%	50V	L11	1-410-780-11	INDUCTOR 27mH			
C28		CERAMIC CHIP	100PF	5%	50V	L21		INDUCTOR 27mH			
C31	1-124-234-00		22uF	20%	16V	521	1 410 700 11	INDUCTOR LIMIT			
C32	1-124-234-00		22uF	20%	16V			< TRANSISTOR >			
200	4 404 004 00										
C33	1-124-234-00		22uF	20%	16V	Q51		TRANSISTOR 2SD			
C51		CERAMIC CHIP	0. 0068uF	10%	50V	Q52		TRANSISTOR 2SD			
C52		CERAMIC CHIP	0.0068uF	10%	50V	Q53		TRANSISTOR 2SD			
C53		CERAMIC CHIP	0. 012uF	10%	50V	Q71	8-729-602-36	TRANSISTOR 2SA	602		
C54	1-136-559-11	FILM	0. 0047uF	5%	630V			< RESISTOR >			
C56		CERAMIC CHIP	2. 2uF		16V			(ILLDIDION)			
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	R12	1-216-025-00	METAL CHIP	100	5%	1/10W
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V	R13	1-216-100-00	METAL GLAZE	130K	5%	1/10 W
						R14	1-216-067-00	METAL CHIP	5. 6K	5%	1/10W
		< JACK >				R15	1-249-430-11	CARBON	12K	5%	1/4W
* CNJ31	1-580-782-11	CONNECTOR, BOAR	D TO BOARD			R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
* CNJ33	1-580-782-11	CONNECTOR, BOAR	D TO BOARD			R22	1-216-025-00	METAL CHIP	100	5%	1/10W
* CNJ72	1-580-411-11	SOCKET, CONNECTO	OR 4P			R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
						R24	1-216-067-00	METAL CHIP	5. 6K	5%	1/10W
		< connector $>$				R25	1-249-430-11	CARBON	12K	5%	1/4W
* CNP32	1-580-781-11	PIN, CONNECTOR	(PC BOARD)	7P		R31	1-216-033-00	METAL CHIP	220	5%	1/10 W
* CNP71	1-564-719-11	PIN, CONNECTOR	(SMALL TYPE	E) 3P		R32	1-216-033-00		220	5%	1/10W
						R41	1-249-393-11		10	5%	1/4W F
		< DIODE >				R42	1-249-393-11		10	5%	1/4W F
DO4	0.710.404.40	P. C.				R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
D31	8-719-404-46	DIODE MAILU				R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
		< IC >				R53	1-216-073-00		10K	5%	1/10W
		(10)				R54	1-216-309-00		5. 6	5%	1/10W
IC31	8-759-106-02	IC uPC4570G2				R55	1-216-309-00		5. 6	5%	1/10W
						R56	1-216-298-00		2. 2	5%	1/10W
		< JUMPER RESISTO	OR >								•
T17* *	4 040	Manual area				R71	1-216-082-00		24K	5%	1/10W
JW1	1-216-296-00		0 5%	1/8W		R72	1-216-081-00		22K	5%	1/10W
JW2	1-216-295-00		0 5%	1/10W		R73	1-216-089-00		47K	5%	1/10W
JW3	1-216-295-00		0 5%	1/10W		R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
JW4	1-216-295-00		0 5%	1/10W							
JW6	1-216-295-00	METAL CHIP	0 5%	1/10W				< VARIABLE RESI	STOR >		
J₩7	1-216-295-00		0 5%	1/10W		RV11	1-241-627-11	RES, ADJ, CARBO	N 1K		
JW52	1-216-296-00	METAL CHIP	0 5%	1/8W		RV12	1-238-551-11	RES, ADJ, CARBO	N 220K		
J₩53	1-216-296-00	METAL CHIP	0 5%	1/8W		RV21	1-241-627-11	RES, ADJ, CARBO	N 1K		
J W 54	1-216-296-00	METAL CHIP	0 5%	1/8W		RV22	1-238-551-11	RES, ADJ, CARBO	N 220K		
J W 55	1-216-296-00	METAL CHIP	0 5%	1/8W	İ	RV71	1-241-630-11	RES, ADJ, CARBO	N 10K		
JW56	1-216-296-00	METAL CHIP	0 5%	1/8 W	İ	RV72	1-241-630-11	RES, ADJ, CARBO	N 10K		
JW57	1-216-296-00	METAL CHIP	0 5%	1/8W				•			

AUDIO-B BD

lef. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description			Remar
		< RELAY >						< JACK >			
RY31	1-515-913-11	RELAY				J101 J102	1-216-295-00 1-216-295-00		0 0	5% 5%	1/10W 1/10W
		< TRANSFORMER	>			3102	1 210 233 00		U	J <i>1</i> 0	1/10#
T51		COIL, BIAS OSC						< MOTOR >			
******	******	*******	******	******	****	M101	X-4917-504-1	MOTOR ASSY (SLED)		
•	A-4617-371-A	BD BOARD, COMF						< TRANSISTOR 3	>		
		< CAPACITOR >				Q101	8-729-901-01	TRANSISTOR DTG	C144EK		
								< RESISTOR >			
C101		CERAMIC CHIP	0. 1uF	4.00	25V						
C102		CERAMIC CHIP	0. 033uF	10%	25V	R101	1-216-097-00		100K		1/10W
C103	1-126-163-11		4. 7uF	20%	50V	R102	1-216-095-00		82K	5%	1/10W
C104		CERAMIC CHIP	0. 1uF		25V	R103	1-216-091-00		56K	5%	1/10W
C105	1-126-154-11	ELECT	47uF	20%	6. 3V	R104	1-216-099-00	METAL CHIP	120K	5%	1/10W
						R105	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
C106	1-126-154-11		47uF	20%	6. 3V						
C107	1-126-154-11		47uF	20%	6. 3V	R106	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
C108		CERAMIC CHIP	0. 1uF		25V	R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
C109	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
C110	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V	R109	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
						R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
C111	1-131-367-00	TANTALUM	22uF	10%	20V						
C112	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
C113	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	R112	1-216-083-00		27K	5%	1/10W
C114	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R113	1-216-071-00		8. 2K	5%	1/10W
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	R114	1-216-105-00		220K	5%	1/10W
						R152	1-216-073-00		10K	5%	1/10W
C117	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						·
C118	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R153	1-216-085-00	METAL CHIP	33K	5%	1/10W
C119	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R154	1-216-085-00		33K	5%	1/10W
C120	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V	R155	1-216-093-00		68K	5%	1/10W
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
						R157	1-216-079-00	METAL CHIP	18K	5%	1/10W
C152	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V	R158	1-216-079-00	METAL CHIP	18K	5%	1/10W
C154	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	R159	1-216-079-00		18K	5%	1/10W
C155	1-163-023-00	CERAMIC CHIP	0. 015uF	5%	50V	1	1-216-049-00		1K	5%	1/10W
C171	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R171	1-216-001-00		10	5%	1/10W
						R172	1-216-001-00		10	5%	1/10W
C172	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C173	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R173	1-216-001-00	METAL CHIP	10	5%	1/10W
C174	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	R174	1-216-001-00		10	5%	1/10W
		< connector $>$						< VARIABLE RE	SISTOR	>	
CN101	1-568-796-11	SOCKET, CONNEC	TOR 22P			DV/101	1_228_600_11	RES. ADJ. CAR	RAN 1AV		
		SOCKET, CONNEC				ł					
ONTOZ	1 000 130 11	DOUNEI, CONNEC	710IL 14I			1		RES, ADJ, CAR			
		< IC >						RES, ADJ, CAR RES, ADJ, CAR			
IC101	8-752-058-77	IC CXA1372AQ						< SWITCH >			
IC102	8-759-822-36	IC LA6532M									
						S101	1-572-085-11	SWITCH, LEAF	(LIMIT)		

LOADING MOTOR MAIN

							Ľ		<u> </u>]
Ref. No.	Part No.	Description		R	emark	Ref. No.	Part No.	Description		Re	mark
*	1-638-730-11	LOADING MOTOR	BOARD			C603	1-124-478-13	I ELECT	100uF	20%	25V
		*****	****			C604	1-124-478-13		100uF	20%	25V
						C608	1-164-159-11		0. 1uF	20%	50V
		< CAPACITOR >				C609	1-164-159-11		0. 1uf 0. 1uF		50V
		(om norron)				C614	1-164-159-11		0. 1uF		50V
C705	1-161-375-00	CERAMIC	0. 0022uF	20%	50V	0014	1 104 133 1	CENAMIC	o. Iur		JUY
0,00	1 101 070 00	OLIULATO	0. 0022ui	204	301	C622	1-161-494-00	CEDAMIC	0. 022uF		25V
		< CONNECTOR >				C626	1-162-294-31			100	
		V OOMALOTOIL >				C627			0. 001uF	10%	50V
CN705	1_573_383_11	PIN, CONNECTOR	(DC DOADD)	an.			1-162-294-31		0.001uF	10%	50V
011700	1 070 000 11	rin, connecton	(FU DUARD)	Zr		C628	1-162-294-31		0.001uF	10%	50V
		/ MOTOD \				C630	1-162-294-31	CERAMIC	0. 001uF	10%	50V
		< MOTOR >				0001	1 100 004 04	arruna.	0.004 F	4.00	Fort
M702	A 4004 024 A	MOTOR ACCV IO	ADING			C631	1-162-294-31		0.001uF	10%	50V
M702		MOTOR ASSY, LO.				C632	1-162-294-31		0.001uF	10%	50V
******	********	******	******	******	*****	C661	1-162-283-31		120PF	10%	50V
						C663	1-162-282-31		100PF	10%	50V
*	A-4356-887-A	MAIN BOARD, COI (EXCEPT D259:C				C664	1-162-282-31	CERAMIC	100PF	10%	50V
		********	******			C665	1-162-282-31	CERAMIC	100PF	10%	50V
*	A-4360-507-A	MAIN BOARD, CO	MPLETE (D259	9:Canadi	.an)	C666	1-162-282-31	CERAMIC	100PF	10%	50V
		******	*****	******	***	C667	1-162-283-31	CERAMIC	120PF	10%	50V
						C668	1-124-907-11	ELECT	10uF	20%	50V
*	3-309-144-21	HEAT SINK				C669	1-124-907-11	ELECT	10uF	20%	50V
*	4-880-403-11	HEAT SINK									
*	4-949-935-31	CUSHION (FL)				C671	1-130-480-00	MYLAR	0. 0056uF	5%	50V
*	4-955-792-11	HOLDER (5M), FI	L TUBE			C672	1-130-480-00		0. 0056uF	5%	50V
		SCREW +BVTT 3X8				C673	1-130-471-00		0. 001uF	5%	50V
			-			C674	1-130-471-00		0. 001uF	5%	50V
		< CAPACITOR >				C675	1-126-176-11		220uF	20%	10V
g=0.4	4 404 488 44	71 F.C.									
C501	1-124-477-11		47uF	20%	25V	C676	1-126-176-11		220uF	20%	10V
C502	1-164-159-11		0. 1uF		50V	C677	1-124-477-11	ELECT	47uF	20%	25V
C503	1-164-159-11		0. 1uF		50V	C678	1-124-477-11	ELECT	47uF	20%	25V
C504	1-164-159-11		0. 1uF		50V	C679	1-164-159-11	CERAMIC	0. 1uF		50V
C511	1-136-161-00	FILM	0. 047uF	5%	50V	C680	1-164-159-11	CERAMIC	0. 1uF		50V
C512	1-161-374-11	CERAMIC	0. 0015uF	20%	50V	C681	1-164-159-11	CERAMIC	0. 1uF		50V
C513	1-161-494-00	CERAMIC	0. 022uF		25V	C688	1-161-494-00		0. 022uF		25V
C514	1-162-306-11		0. 01uF	20%	16V	C690	1-161-494-00		0. 022uF		25V
C515	1-124-902-00		0. 47uF	20%	50V	C800	1-124-563-11		2200uF	20%	25V
C516	1-161-494-00		0. 022uF	2070	25V	C801	1-126-176-11		220uf	20%	10V
****	1 101 101 00		0. 022di		201	0001	1 120 170 11	LLLOI	220ui	20%	101
C531	1-124-635-00	ELECT	220uF	20%	6. 3V	C802	1-124-572-11	ELECT	100uF	20%	63V
C537	1-126-177-11	ELECT	100uF	20%	10V	C803	1-124-907-11	ELECT	10uF	20%	50V
C539	1-164-159-11	CERAMIC	0. 1uF		50V	C804	1-128-548-81	ELECT	4700uF	20%	25V
C542	1-124-635-00	ELECT	220uF	20%	6. 3V	C805	1-128-548-81	ELECT	4700uF	20%	25V
C543	1-164-159-11	CERAMIC	0. 1uF		50V	C806	1-164-159-11		0. 1uF	2070	50V
C549	1-164-159-11	CFRAMIC	0. 1uF		50V	C807	1-124-907-11	FIFCT	10uF	3U@	EOV
C550	1-124-635-00			200		1				20%	50V
C551	1-164-159-11		220uF	20%	6. 3V	C808	1-124-472-11		470uF	20%	10V
C553	1-162-195-31		0. 1uF	100	50V	C809	1-124-472-11		470uF	20%	10V
C554	1-162-195-31		4. 7PF	10%	50V	C811	1-124-443-00		100uF	20%	10V
			4. 7PF	10%	50V	C813	1-164-159-11	CERAMIC	0. 1uF		50V
	1-126-177-11	ELECT	100uF	20%	10V	C815	1-124-927-11	ELECT	4. 7uF	20%	100V
C558	1-164-159-11	CERAMIC	0. 1uF		50V	C816	1-124-907-11	ELECT	10uF	20%	50V
C601	1-124-472-11	ELECT	470uF	20%	10V	C817	1-124-443-00	ELECT	100uF	20%	10V
C602	1-164-159-11	CERAMIC	0. 1uF		50V	C822	1-164-159-11	CERAMIC	0. 1uF		50V

MAIN

Ref. No	o. Part No.	Description		Re	emark	Ref. No.	Part No.	Description	1		Ren	nark
C82:			0. 1uF		50V			< COIL >				
C83: C88: C90:	3 1-124-907-11	ELECT	22uF 10uF 220PF	20% 20% 10%	63V 50V 50V	L501	1-408-417-00	INDUCTOR 47	/uH			
C90			220PF	10%	50V			< IC LINK >	>			
C90:	3 1-130-467-00	MYLAR	470PF	5%	50V	<u>↑</u> PS601	1-532-637-00					
C90			470PF	5%	50V	A DCCOO	1-532-685-00		JK, E, IT, AUS, D250 AFP IK			159)
C91: C91:			0. 001uF 0. 1uF	10%	50V 50V	/IZP3002	1-332-003-00	LINK, IC	D255. NEI , OK	, 1., 1	1, 1100, De	.00)
		< CONNECTOR >						< TRANSISTO	OR >			
		(COMMEDIANT)				Q541	8-729-900-61	TRANSISTOR	DTA114ES			
* CN6	01 1-691-902-21	CONNECTOR, FFC,	FPC 37P			Q542	8-729-900-61	TRANSISTOR	DTA114ES			
* CN6	03 1-568-824-11	SOCKET, CONNECT	TOR 5P			Q543	8-729-900-61	TRANSISTOR	DTA114ES			
	04 1-568-943-11					Q601	8-729-900-89					
	05 1-691-895-21 52 1-564-524-11					Q673	8-729-141-30	TRANSISTOR	2SC3623A-LI	{		
		ŕ				Q674	8-729-141-30	TRANSISTOR	2SC3623A-L1	Κ.		
* CN6	53 1-564-523-11	PLUG, CONNECTOR	R 8P			Q675	8-729-620-05					
* CN6	55 1-565-291-11	SOCKET, CONNECT	TOR 13P			Q676	8-729-620-05					
						Q677	8-729-620-05					
		< DIODE >				Q678	8-729-900-89	TRANSISTOR	DTC144ES			
D60	1 8-719-987-63	DIODE 1N4148M				Q679	8-729-119-76	TRANSISTOR	2SA1175-HF	E		
D80		DIODE HZS7C2L				Q802	8-729-140-96	TRANSISTOR	2SD774-34			
D80	8 8-719-000-75	DIODE UZL-7L1				Q803	8-729-141-83					
D81	0 8-719-010-12	DIODE UZ-2. 7BS				Q809	8-729-119-76	TRANSISTOR	2SA1175-HF	E		
D81	1 8-719-000-75	DIODE UZL-7L1						< RESISTOR	>			
D84	1 8-719-500-36	DIODE D2SB20				DE01	1 040 490 11	CADDON	1 01/	E0/	1/4W	C C
		/ PERDITED DEAD	,			R501	1-249-420-11		1. 8K 1K	5% 5%	1/4W	
		< FERRITE BEAD	>			R502 R503	1-249-417-11 1-249-417-11		1K 1K	5%	1/4W	
EDC	01 1 419 479-91	INDUCTOR OUR				R504	1-249-417-11		1K 1K	5%	1/4W	
	01 1-412-473-21 02 1-412-473-21					R511	1-249-423-11		3. 3K		1/4W	
	03 1-412-473-21						1 210 120 11				_,	
	04 1-412-473-21					R512	1-249-429-11	CARBON	10K	5%	1/4W	
	05 1-412-473-21					R513	1-249-423-11	CARBON	3. 3K	5%	1/4W	F
						R514	1-249-429-11	CARBON	10K	5%	1/4W	
FB6	06 1-412-473-21	INDUCTOR OUH				R515	1-249-417-11	CARBON	1K	5%	1/4W	
	07 1-412-473-21					R516	1-249-417-11	CARBON	1K	5%	1/4W	F
FB9	01 1-412-473-21	INDUCTOR OUH									4 / 4777	_
						R517	1-249-420-11		1. 8K		1/4W	F
		< IC >				R518	1-249-441-11		100K		1/4W	r.
						R531	1-249-417-11		1K	5% =~	1/4₩	
	01 8-752-838-85		4Q			R539	1-249-425-11 1-249-405-11		4. 7K 100	5% 5%	1/4W 1/4W	
	02 8-752-352-93					R541	1-249-400-11	L CANDON	100	J/0	1/411	1
	03 8-759-821-32 04 8-752-355-45					R543	1-249-441-1	CARRON	100K	5%	1/4W	
	104 8-752-355-45 105 8-759-634-51					R544	1-249-441-1		100K	5%	1/4W	
100	00 0-709-034-01	I TO MIJZIONI				R547	1-249-441-1		100K	5%	1/4W	
ICE	06 8-759-634-51	L IC M5218AP				R601	1-249-433-13		22K	5%	1/4W	
	107 8-759-000-49					R602	1-249-433-1		22K	5%	1/4W	
	101 8-759-071-48											
	802 8-759-633-42					R603	1-249-433-1	1 CARBON	22K	5%	1/4W	
	303 8-759-630-21					R604	1-249-425-1	1 CARBON	4. 7K	5%	1/4W	F
100	5 .30 000 11					R605	1-249-425-1		4. 7K		1/4W	F
							components ide	- 1	Les composa			és
						1	⚠ or dotted		par une man			
						1	⚠ are criti	i i	critiques p			
							y. Replace on					ar une pièce
						part	number specif	rea.	portant le	nume	no speci	uite.

MAIN OPEN/UP SW PANEL-B

							L						
Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Description			Re	mark
R606	1-249-425-11	CARBON	4. 7K	5%	1/4W	F	R693	1-249-433-11	CARRON	22K	5%	1/4W	
R608	1-249-441-11		100K		1/4W	•	R694	1-249-393-11		10	5%	1/4W	F
R609	1-249-440-11		82K	5%	1/4W		R695	1-249-433-11		22K	5%	1/4W	
R610	1-247-874-11		62K	5%	1/4W		R696	1-249-433-11		22K	5%	1/4W	
R611	1-249-435-11		33K	5%	1/4W		R697	1-249-433-11		22K	5%	1/4W	
NU11	1-245-455-11	CARDON	JJN	J <i>I</i> 0	1/411		nus/	1-245-455-11	CANDON	2211	JA	1/411	
R612	1-247-878-00	CARBON	91K	5%	1/4W		R801	1-249-435-11	CARBON	33K	5%	1/4W	
R613	1-247-864-11	CARBON	24K	5%	1/4W		R813	1-249-423-11	CARBON	3. 3K	5%	1/4W	F
R614	1-247-880-11	CARBON	110K	5%	1/4W		R814	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R615	1-249-440-11	CARBON	82K	5%	1/4W		R815	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R616	1-247-876-11	CARBON	75K	5%	1/4W		R819	1-249-410-11	CARBON	270	5%	1/4W	F
R621	1-249-393-11	CADRON	10	5%	1/4W	F	R820	1-249-438-11	CADRON	56K	5%	1/4W	
R622					1/4\\					10K			
	1-249-393-11		10	5%	•	ľ	R821	1-249-429-11			5%	1/4W	г
R625	1-249-429-11		10K	5%	1/4W		R826	1-249-417-11		1K	5%		F
R626	1-249-429-11		10K	5%	1/4W		R827	1-249-410-11		270	5%	1/4W	r
R627	1-249-429-11	CARBON	10K	5%	1/4W		R852	1-249-429-11	CARBON	10K	5%	1/4W	
R628	1-249-429-11	CARBON	10K	5%	1/4W				< VIBRATOR >				
R629	1-249-429-11		10K	5%	1/4W								
R630	1-249-429-11	CARBON	10K	5%	1/4W		X501	1-579-833-21	VIBRATOR, CRYST	'AL 33M	Hz		
R631	1-249-429-11		10K	5%	1/4W		1		******			*****	****
R632	1-249-429-11		10K	5%	1/4W								
11002	1 243 423 11	Old DON	1011	0.0	1/ 111		*	1-638-731-11	OPEN/UP SW BOAF	:D			
R645	1-249-425-11	CARBON	4. 7K	5%	1/4W	F			******				
R646	1-249-425-11		4. 7K	5%	1/4W								
R652	1-249-433-11		22K	5%	1/4W	•			< SWITCH >				
R653	1-249-433-11		22K	5%	1/4W				\ BWIIOII /				
R655	1-249-433-11		22K	5%	1/4W		S702	1_571_300_21	SWITCH, ROTARY	/11D /0D	EN/		
11000	1 243 433 11	OALDON	LLI	370	1/ 111				*******			*****	****
R656	1-249-433-11	CARBON	22K	5%	1/4W								
R661	1-247-862-11	CARBON	20K	5%	1/4W		*	1-646-432-21	PANEL-B BOARD				
R662	1-247-862-11		20K	5%	1/4W				*****				
R663	1-247-862-11		20K	5%	1/4W								
R664	1-247-862-11		20K	5%	1/4W				< CONNECTOR >				
R665	1-249-433-11		22K	5%	1/4W		* CN750	1-691-902-21	CONNECTOR, FFC/	FPC 37	P		
R666	1-249-433-11		22K	5%	1/4W								
R667	1-249-433-11		22K	5%	1/4W				< FILTER >				
R668	1-249-433-11	CARBON	22K	5%	1/4W								
R669	1-249-419-11	CARBON	1. 5K	5%	1/4W	F	FL701	1-519-721-31	INDICATOR TUBE,	FLUOR	ESCENT		
R670	1-249-419-11	CARRON	1. 5K	5%	1/4W	F			< RESISTOR >				
R671	1-249-419-11		1. 5K		1/4W				\ ILDIDIOI /				
R672	1-249-419-11		1. 5K	5%	1/4W		R751	1-249-422-11	CADDON	2. 7K	E0	1/4W	E
R675	1-249-421-11		2. 2K		1/4W		l l			2. 7K 2. 7K			
	1-249-421-11						R752	1-249-422-11				1/4W	
R676	1-249-421-11	CARDUN	2. 2K	3%	1/4W	r	R753	1-249-424-11		3. 9K		1/4W	
2000		a i ppou	40011	Fo:	4 (40)		R754	1-249-427-11		6. 8K		1/4W	
	1-249-441-11		100K		1/4W		R763	1-249-422-11	CARBON	2. 7K	5%	1/4W	ľ
R678	1-249-441-11		100K	5%	1/4W	_			a.nno				_
	1-249-425-11		4. 7K	5%	1/4W		R764	1-249-424-11		3. 9K		1/4W	
R682	1-249-425-11	CARBON	4.7K	5%	1/4W		R765	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R683	1-249-409-11	CARBON	220	5%	1/4W	F			/ OUTTOOT :				
R684	1-249-409-11	CARRON	220	5%	1/4W	F			< SWITCH >				
R690			10K			1	0750	1_554, 202, 21	SWITCH, TACTILE	(ED 17	/TTME 1	SADE)	
	1-249-429-11			5% 5%	1/4W	U	S750		•			AVE)	
R691	1-249-417-11		1K	5% 5%	1/4W	r	S751		SWITCH, TACTILE				
R692	1-249-429-11	CARBON	10K	5%	1/4W		S752	1-554-303-21	SWITCH, TACTILE	(ULEA	1)		

PANEL-	ВРА	NEL-U	SW	_	ГС	PANE	L (A)	TC PA	ANEL (B)		
Ref. No.	Part No.	Description			Re	emark	Ref. No.	Part No.	Description		Remark
S753		SWITCH, TACTILE	•	,			*	A-4357-003-A	SW BOARD, COMPLETE	(D259)	
S754	1-554-303-21	SWITCH, TACTILE	(MUSI	C SCAN)				******	*****	
S755	1-554-303-21	SWITCH, TACTILE	(REPE	AT)			*	A-4357-196-A	SW BOARD, COMPLETE	(D359)	
S765		SWITCH, TACTILE							******	*****	
S766	1-554-303-21	SWITCH, TACTILE	(SHUT	TLE)				1-646-887-21	TC PANEL (A) BOARD	ı	
S767	1-554-303-21	SWITCH, TACTILE	(CONT	INUE)					******		
S780	1-554-303-21	SWITCH, TACTILE	(TIME))							
******	******	******	*****	*****	*****	****			< DIODE >		
*	1-646-431-91	PANEL-U BOARD					D481	8-710-301-42	DIODE SEL2410E		
*	1 040 431 21	********					D481	8-719-301-49			
		***************************************					D482	8-719-301-49			
		< CONNECTOR >					D100	0 710 001 10			
CN752	1-506-469-11	PIN, CONNECTOR	4P						< SWITCH >		
							S401	1-554-303-21	SWITCH, TACTILE (■)	
		< RESISTOR >					S402	1-554-303-21	SWITCH, TACTILE (P	LAY:▷)	
						İ	S403	1-554-303-21	SWITCH, TACTILE (P	LAY:⊲)	
R755	1-249-422-11	CARBON	2.7K	5%	1/4W	F	S404	1-554-303-21	SWITCH, TACTILE (A	MS:▶▶)	
R756	1-249-424-11	CARBON	3. 9K	5%	1/4W	F	S405	1-554-303-21	SWITCH, TACTILE (A	MS: ∢∢)	
R757	1-249-427-11	CARBON	6.8K	5%	1/4W	F					
R758	1-249-432-11	CARBON	18K	5%	1/4W		S406		SWITCH, SLIDE (DOL		
R759	1-249-422-11	CARBON	2. 7K	5%	1/4₩	F	S407	1-572-268-11	SWITCH, SLIDE (DIR	ECTION MODE	:)
R760	1-249-424-11	CARBON	3. 9K	5%	1/4W	F		1-646-888-21	TC PANEL (B) BOARD	1	
R761	1-249-427-11	CARBON	6.8K	5%	1/4W	F			******		
R762	1-249-432-11	CARBON	18K	5%	1/4W						
R766	1-249-422-11	CARBON	2.7K	5%	1/4W	F			< CONNECTOR >		
R767	1-249-424-11	CARBON	3. 9K	5%	1/4W	F	au 454	4 500 440 44	GOGLETT GOVERNOR	an.	
R768	1-249-427-11	CADDON	c ov	E0	1 /AW	r l			SOCKET, CONNECTOR		
R769	1-249-427-11		6. 8K 18K	5%	1/4W 1/4W	r	UN43Z	1-300-443-11	SOCKET, CONNECTOR	ıər	
					-,				< DIODE >		
		< SWITCH >					D491	8-719-301-37	LED SEL2210S-CD		
\$756	1-554-303-21	SWITCH, TACTILE	(KM)				D431 D492	8-719-301-49			
S757		SWITCH, TACTILE					D432 D493		DIODE SEL2410E		
S758		SWITCH, TACTILE					D494	8-719-301-49			
S759		SWITCH, TACTILE					D495	8-719-301-49			
S760		SWITCH, TACTILE		/CLOSE)		2100	10 001 10			
			, ,				D496	8-719-301-37	LED SEL2210S-CD	(D359)	
S761	1-554-303-21	SWITCH, TACTILE	(▷)				D497	8-719-301-37			
S762		SWITCH, TACTILE				İ	D498	8-719-301-37			
S763	1-554-303-21	SWITCH, TACTILE	(■)								
S764	1-554-303-21	SWITCH, TACTILE	(DISK	SKIP)					< RESISTOR >		
S768	1-554-303-21	SWITCH, TACTILE	(DISK	5)							
0700	1_554_909_91	CMITCH TACTIF	(DION	4)			R481	1-249-407-11			1/4W F
S769		SWITCH, TACTILE SWITCH, TACTILE					R482	1-249-409-11			1/4W F
S770 S771		SWITCH, TACTILE	•				R483	1-249-415-11 1-249-417-11			1/4W F
S771 S772		SWITCH, TACTILE					R484 R485	1-249-417-11			1/4W F 1/4W
		ЭМІІСП, ІАСІІСС ********			*****	****	R40J	1 743 470-11	onition 3.	υ <u>ι</u> , J <i>λ</i> η .	L/ ***
							R486	1-249-430-11	CARBON 12	K 5% :	1/4W
							R490	1-249-407-11			1/4W F
							R491	1-249-409-11	CARBON 22	0 5%	1/4W F
							R492	1-249-411-11	CARBON 33	0 5%	1/4W
							R493	1-249-413-11	CARBON 47	0 5%	1/4W F

TC	PANEL (B) LEAF S	W-A	(DE	CK	A)	LEAF	SW-	B (DECK	В) ТАВ	LE MO	TOR	TC	MAIN
Ref. No.	Part No.	Description			Re	mark		Ref. No.	Part No.	Description		R	emark	
R494 R495 R496 R497	1-249-411-11 1-249-413-11 1-249-415-11 1-249-417-11	CARBON CARBON	330 470 680 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	F		IC81	8-719-710-03	< IC >	iK-B			
R498	1-249-420-11		1. 8K		1/4W					< RESISTOR >				
R499	1-249-424-11	CARBON < SWITCH >	3. 9K	5%	1/4W	F		R81 R82 R83	1-249-414-11 1-247-818-11 1-247-834-11	CARBON CARBON	560 5% 300 5% 1. 3K 5%	1/4W		
S451 S452 S453	1-554-303-21 1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(PLAY:	:⊲)				R84 R85	1-249-417-11 1-249-408-11		1K 5% 180 5%	_,		
S454 S455 S456	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(O RE	EC MUT	E)			S81 S82 S84	1-571-281-21	SWITCH, PUSH SWITCH, LEAF SWITCH, LEAF	(1 KEY)			
S457 S458 S459 S460	1-554-303-21 1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(●:RE	EC) Ing spi				S85 S86 ******	1-571-281-21	SWITCH, LEAF SWITCH, LEAF	*****	*****	*****	
S461 *****	1-554-303-21	SWITCH, TACTILE	(CD SY	(NCHRO)) (D359)		*	1-638-729-11	TABLE MOTOR BO	***			
*	1-634-841-14	LEAF SW-A BOARD	•	•				C704	1-161-375-00		0. 0022uF	20%	50V	
	3-343-419-01	HOLDER (S SENSOI	? A)							< CONNECTOR >				
* CNP81	1-568-850-11	< CONNECTOR > SOCKET, CONNECTO	OR 7P					* CN707	1-573-044-11	SOCKET, CONNEC	CTOR 5P			
		< IC >						D701	8-719-970-19	DIODE GP-1A52	1			
IC81	8-719-710-03	DIODE NJL5165K-E	3							< motor >				
		< RESISTOR >						M701	A-4604-585-A	MOTOR ASSY, RO	OTARY			
R84 R85	1-249-417-11 1-249-408-11				1/4W 1/4W					< RESISTOR >				
		< SWITCH >							1-249-416-11 *******	CARBON **********	820 5% ******			
S81 S82 S86	1-571-281-21 1-571-281-21	SWITCH, LEAF	·							TC MAIN BOARD,				
*****		**************************************	(DECK)	В)	*****	****			8-729-900-65	PLATE, GROUND TRANSISTOR DTA TRANSISTOR DTA				
	3-343-419-01	HOLDER (S SENSOR	. A)							< CAPACITOR >				
		< CONNECTOR >						C123	1-130-479-00 1-162-291-31 1-136-165-00	CERAMIC	0. 0047uF 560PF 0. 1uF	5% 10% 5%	50V 50V 50V	
* CNP81	1-568-850-11	SOCKET, CONNECTO	R 7P					C127	1-126-791-11	ELECT	10uF	20%	35V	

TC MAIN

Ref. No.	Part No.	Description		Ren	ark	Ref. No.	Part No.	Description	Remark
C128	1-126-301-11	ELECT	1uF	20%	50V	CN402	1-580-783-11	CONNECTOR, BOARD TO BOARD	
C129	1-124-465-00		0. 47uF	20%	50V			CONNECTOR, BOARD TO BOARD	
C130	1-126-791-11		10uF	20%	35V			CONNECTOR, BOARD TO BOARD	
C131	1-164-159-11		0. 1uF		50V			SOCKET, CONNECTOR 7P	
C132	1-126-791-11		10uF	20%	35V			SOCKET, CONNECTOR 7P	
0102	1 120 731 11	LLLOI	Tour	20%		011100	1 000 101 11	2001	
C141	1-126-301-11	ELECT	1uF	20%	50V	CN407	1-568-441-11	SOCKET, CONNECTOR 9P	
C142	1-126-791-11		10uF	20%	35V			SOCKET, CONNECTOR 13P	
C143	1-161-375-00		0. 0022uF	20%	50V				
C222	1-130-479-00		0. 0047uF	5%	50V			< DIODE >	
C223	1-162-291-31		560PF	10%	50V				
0220	1 102 201 01	V 3.1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				D301	8-719-000-78	DIODE UZL-7L2	
C226	1-136-165-00	FILM	0. 1uF	5%	50V	D302		DIODE 1N4148M	
C227	1-126-791-11		10uF	20%	35V	D303		DIODE 1N4148M	
C228	1-126-301-11		1uF	20%	50V	D304		DIODE 1N4148M	
C229	1-124-465-00		0. 47uF	20%	50V	D305	8-719-200-82		
C230	1-126-791-11		10uF	20%	35V	2000	0 110 200 02	71070 11252	
0200	1 120 731 11	LECT	1001	2070		D306	8-719-200-82	DIODE 11ES2	
C231	1-161-377-00	CERAMIC	0. 0047uF	20%	16V	D401		DIODE 1N4148M	
C232	1-161-375-00		0. 0022uF	20%	50V	D402		DIODE 1N4148M	
C233	1-124-465-00		0. 47uF	20%	50V	D403		DIODE 1N4148M	
C241	1-126-301-11		1uF	20%	50V	2 100	0 110 001 00	21022 21102	
C242	1-126-791-11		10uF	20%	35V			< IC >	
0242	1 120 731 11	·	Tour	2070	001			(10)	
C243	1-161-375-00	CERAMIC	0. 0022uF	20%	50V	IC101	8-759-098-75	IC HA12171NT	
C301	1-126-791-11		10uF	20%	35V	IC301	8-759-071-48	IC TA7807S	
C302	1-126-926-11		1000uF	20%	10V	IC401	8-759-076-36	IC M50964-256FP	
C303	1-123-382-00		3. 3uF	20%	100V	IC402	8-759-635-63	IC M51943BSL	
C304	1-164-159-11		0. 1uF		50V	IC403	8-759-207-05	IC TA7272P	
CODE	1 104 150 11	CEDAMIC	0 1Ε		50V			< TRANSISTOR >	
C305	1-164-159-11		0. 1uF	200	16V			\ INANSISION /	
C306 C307	1-126-933-11		100uF 100uF	20% 20%	16V	Q101	072062005	TRANSISTOR 2SC2603-EF	
	1-126-933-11				10V	Q201		TRANSISTOR 2SC2603-EF	
C308	1-126-926-11		1000uF	20%		•		TRANSISTOR 2SC2603-EF	
C309	1-126-926-11	ELECI	1000uF	20%	107	Q301 Q400		TRANSISTOR DTA114ES	
C210	1_126_701_11	DI DOT	10uF	20%	35V	Q400 Q401		TRANSISTOR DTA114ES	
C310 C311	1-126-791-11 1-126-791-11		10uF	20% 20%	35V	Q401	0 723 300 01	THANSISTON DIAITALS	
					1	Q402	0_720_000_61	TRANSISTOR DTA114ES	
C312	1-126-949-11		220uF	20%	35V	Q402 Q403		TRANSISTOR DTA114ES	
C314	1-124-584-00		100uF	20%	10V 10V	Q403 Q404		TRANSISTOR DTA114ES	
C315	1-126-926-11	ELECT	1000uF	20%	104	•			
0010	1-126-933-11	CICCT	100uF	20%	16V	Q405 Q406		TRANSISTOR DTA114ES TRANSISTOR DTC144ES	
C316			100uF	20%	16V	Q400	0 723 300 03	TIMISISTOT DIVIPALS	
C317	1-126-933-11					0407	0_720_800_90	TRANSISTOR DTC144ES	
C318	1-126-933-11		100uF	20%	16V	Q407			
C456	1-162-290-31		470PF	10%	50V	Q408		TRANSISTOR DTA114ES	
C457	1-162-290-31	CERAMIC	470PF	10%	50V	Q409		TRANSISTOR 2SC2603-EF	
0.450	1 104 150 11	arnawi a	0.4 E		5077	Q410		TRANSISTOR 2SC2603-EF	
C458	1-164-159-11		0. 1uF		50V	Q411	8-729-801-84	TRANSISTOR 2SB1013-4	
C459	1-164-159-11	CERAMIC	0. 1uF		50V	0410	0 790 001 04	TDANGICTOD OCDIO19 4	
		/ GONNEGTOD >				Q412		TRANSISTOR 2SB1013-4	
		< connector >				Q413		TRANSISTOR DTA114ES	
* \(\mathbb{N}\)101	1_564_500_11	PLUG, CONNECTOR	ЯD			Q414	0-129-900-89	TRANSISTOR DTC144ES	
		PLUG, CONNECTOR						< RESISTOR >	
		PLUG, CONNECTOR						/ HEDIDION /	
		PLUG, CONNECTOR				R120	1-215-451-00	METAL 18K 1%	1/6W
		PLUG, CONNECTOR				R121	1-249-430-11		1/4W
* UN4U1	1-204-217-11	LLUG, CUMNECIUK	41		I	1177	1 749 490_11	OMEDON 12N 3A	1/ 111

TC MAIN

Ref. No.	Part No.	Description			Re	mark	Ret	f. No.	Part No.	Description			Re	mark
R122	1-249-431-11	CARBON	15K	5%	 1/4W			R412	1-249-411-11	CARBON	330	5%	1/4W	
R123	1-249-425-11		4. 7K	5%	1/4W	F	1	R413	1-249-429-11		10K	5%	1/4W	
R124	1-249-428-11		8. 2K	5%	1/4W			R414	1-249-429-11		10K	5%	1/4W	
R125	1-249-429-11		10K	5%	1/4W	•	j.	R415	1-249-421-11		2. 2K	5%	1/4W	F
R127	1-249-429-11		10K	5%	1/4W		i	R416	1-249-421-11		2. 2K		1/4W	
11121	1 243 423 11	OALDON	ION	U/U	1/ 111		'	1110	1 210 121 11	orni Don	2. 2	070	2/ 2	•
R130	1-249-429-11	CARRON	10K	5%	1/4W			R417	1-249-437-11	CARBON	47K	5%	1/4W	
R131	1-249-425-11		4. 7K	5%	1/4W	F	1	R418	1-249-429-11		10K	5%	1/4W	
R132	1-249-429-11		10K	5%	1/4W	•	1	R420	1-249-425-11		4. 7K		1/4W	F
R133	1-249-429-11		10K	5%	1/4W		1	R422	1-249-425-11		4. 7K		1/4W	
R135	1-247-864-11		24K	5%	1/4W		1	R423	1-249-429-11		10K	5%	1/4W	•
11133	1 247 004 11	OMIDON	2711	UA)	1/ 111		'	1120	1 210 120 11	Olin Doll	1011	070	1, 1	
R136	1-249-429-11	CARRON	10K	5%	1/4W			R425	1-249-417-11	CARBON	1K	5%	1/4W	F
R137	1-249-429-11		10K	5%	1/4W		!	R426	1-249-417-11		1K	5%	1/4W	
R138	1-249-429-11		10K	5%	1/4W		1	R427	1-249-417-11		1K	5%	1/4W	
R141	1-249-421-11		2. 2K	5%	1/4W	F	1	R431	1-249-429-11		10K	5%	1/4W	
R142	1-249-428-11		8. 2K	5%	1/4W		1	R432	1-249-415-11		680	5%	1/4W	F
11142	1 243 420 11	CARDON	O. ZIX	J <i>1</i> 0	1/ 11	1	1	1702	1 243 410 11	Onibon	000	0.0	1/ 1"	•
R143	1-247-840-00	CARRON	2. 4K	5%	1/4W			R433	1-249-429-11	CARBON	10K	5%	1/4W	
R144	1-249-433-11		22K	5%	1/4W		1		1-249-415-11		680	5%	1/4W	F
R145	1-249-417-11		1K	5%	1/4W	C	E .		1-249-429-11		10K	5%	1/4W	•
R221	1-249-417-11		12K	5%	1/4W	ľ			1-249-425-11		4. 7K		1/4W	F
								R452	1-249-435-11		33K	5%	1/4W	ľ
R222	1-249-431-11	CARDUN	15K	5%	1/4W		'	1432	1-249-455-11	CARDON	3317	J/0	1/4#	
R223	1-249-425-11	CARRON	4. 7K	5%	1/4W	F		R453	1-249-437-11	CARRON	47K	5%	1/4W	
R223	1-249-423-11		8. 2K	5%	1/4W		1	R454	1-247-872-11		51K	5%	1/4W	
R225	1-247-882-11		130K	5%	1/4W		1	R455	1-247-862-11		20K	5%	1/4W	
R225	1-247-866-11		30K	5%	1/4W			R456	1-247-866-11		30K	5%	1/4W	
R229	1-249-429-11		10K	5%	1/4W			R457	1-247-872-11		51K	5%	1/4W	
nzzs	1 245 425 11	CARDON	1011	J/0	1/411		'	1401	1 247 072 11	OMIDON	JIN	0.0	1/ 111	
R230	1-249-432-11	CARRON	18K	5%	1/4W			R458	1-249-405-11	CARBON	100	5%	1/4W	F
R231	1-247-885-00			5%	1/4W			R459	1-249-381-11		1	5%	1/4W	
R241	1-249-421-11		2. 2K	5%	1/4W	F	1	R460	1-249-381-11		1	5%	1/4W	
R242	1-249-428-11		8. 2K	5%	1/4W		1	R461	1-249-425-11		4. 7K		1/4W	
R243	1-247-840-00		2. 4K		1/4W	1		R462	1-249-435-11		33K	5%	1/4W	•
N44J	1 247 040 00	CARDON	Z. 4N	J <i>1</i> 0	1/411		1	1402	1 243 433 11	OMIDON	3311	0.70	1/ 111	
R244	1-249-433-11	CARRON	22K	5%	1/4W			R463	1-249-437-11	CARBON	47K	5%	1/4W	
R245	1-249-417-11		1K	5%	1/4W	F	1		1-247-872-11		51K	5%	1/4W	
R300	1-249-405-11		100	5%	1/4W		l l		1-247-862-11		20K	5%	1/4W	
R301	1-249-421-11		2. 2K	5%	1/4W		1		1-247-866-11		30K	5%	1/4W	
R302	1-249-405-11		100	5%	1/4W		ł		1-247-872-11		51K	5%	1/4W	
11302	1 243 403 11	CALIDON	100	J /0	1/411	1	1	1701	1 247 072 11	Ontbon	0111	0.0	1/ 1"	
R303	1-249-422-11	CARRON	2. 7K	5%	1/4W	F	F	R468	1-249-405-11	CARBON	100	5%	1/4W	F
R352	1-249-393-11		10	5%	1/4W		i		1-249-381-11		1	5%	1/4W	
R400	1-249-389-11		4.7	5%	1/4W		1	R470	1-249-381-11		1	5%	1/4W	
R401	1-249-429-11		10K	5%	1/4W	•		R471	1-249-429-11		10K	5%	1/4W	•
R402	1-247-903-00		1M	5%	1/4W		I		1-249-425-11		4. 7K		1/4W	F
11402	1 247 303 00	OMIDON	1111	0.0	1/ 111		1	1112	1 240 120 11	CIMIDON	1. /11	0.0	1/ 1"	•
R403	1-247-895-00	CARBON	470K	5%	1/4W		F	R473	1-249-434-11	CARBON	27K	5%	1/4W	
R404	1-247-895-00		470K	5%	1/4W		l l		1-249-429-11		10K	5%	1/4W	
R405	1-249-408-11		180	5%	1/4W	F	t		1-249-425-11		4. 7K		1/4W	F
R406	1-249-408-11		180	5%	1/4W		1		1-249-434-11		27K	5%	1/4W	
R407	1-249-410-11		270	5%	1/4W		1		101 11		2	0.0	+/ *"	
11-207	1 240 410 11	OTHEDOIT	210	0.0	1/ 111	•				< VARIABLE R	ESISTOR >			
R408	1-247-812-11	CARBON	160	5%	1/4W					· ····································				
R409	1-247-812-11		160	5%	1/4W		F	RV101	1-230-496-11	RES. ADJ. CA	RBON 10K			
R410	1-247-816-11		240	5%	1/4W		1		1-230-496-11					
R410	1-247-812-11		160	5%	1/4W				_ 200 100 11	,, 011				
11-47.1	1 741 017 11	OTHEROTI	100	0.00	1/ 111		1							

TC MAIN **TRANSFORMER**

Ref. No. Part No. Description Remark < VIBRATOR >

X401 1-577-358-21 VIBRATOR, CERAMIC *******************

1-646-433-21 TRANSFORMER BOARD ******

< CONNECTOR >

* CN701 1-564-512-11 PLUG, CONNECTOR 9P * CN702 1-564-507-11 PLUG, CONNECTOR 4P

< DIODE >

D801 8-719-200-82 DIODE 11ES2 D803 8-719-200-82 DIODE 11ES2 D804 8-719-200-82 DIODE 11ES2

< TRANSFORMER >

1-423-421-11 TRANSFORMER. POWER

MISCELLANEOUS

1-751-209-11 WIRE, FLAT TYPE (9 CORE) (D259) 55

1-590-574-11 WIRE, FLAT TYPE (7 CORE) 64

65 1-590-485-11 WIRE, FLAT TYPE (7 CORE)

69 1-751-055-31 WIRE, FLAT TYPE (37 CORE) (D259)

70 1-690-589-31 WIRE, FLAT TYPE (13 CORE) (D359)

1-751-210-11 WIRE, FLAT TYPE (13 CORE) (D259) 70

1-452-538-11 MAGNET * 104

114 1-590-849-11 WIRE, FLAT TYPE (5 CORE)

1-537-476-11 JUMPER, FILM (WITH TERMINAL) 154

^201 8-848-144-11 DEVICE, OPTICAL KSS-240A

202 1-575-001-11 WIRE, FLAT TYPE (12 CORE)

1-638-983-11 PC BOARD, MOTOR FLEXIBLE 271

D701 8-719-970-19 DIODE GP-1A521

HP901 A-2003-838-A DECK ASSY, HEAD (DECK A)

HRPE901A-2004-190-A DECK ASSY, HEAD (DECK B).

IC302 8-759-604-95 IC M5F79M07

M102 X-4917-523-3 BASE (OUTSERT) ASSY (SPINDLE MOTOR)

M901 X-3359-417-1 MOTOR ASSY (CAPSTAN)

M902 X-3363-501-1 MOTOR ASSY (REEL)

Q302 8-729-209-15 TRANSISTOR 2SD2012

S701 1-572-713-11 SWITCH, PUSH (WITH CONNECTOR)

Ref. No. Part No. Description Remark

ACCESSORIES & PACKING MATERIALS *********

* 5 4-941-548-01 LABEL, CLASS 1

(D259: AEP, UK, E, IT, AUS, D359)

4-937-945-01 PLATE (TRANSPORT), LOCK

* 8 3-703-713-41 STICKER, SONY SYMBOL (10) (D359) ***************

******* HARDWARE LIST ********

7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S

#2 7-685-647-79 SCREW +BVTP 3X10 TYPE2 N-S

#3 7-682-554-04 SCREW +B 3X25

#4 7-682-661-09 SCREW +PSW 4X8

#5 7-685-136-19 SCREW +P 2.6X12 TYPE2 NON-SLIT

#6 7-621-255-15 SCREW +P 2X3

#9

#7 7-621-775-00 SCREW +B 2.6X3

#8 7-627-556-08 SCREW +P 2.6X2.8

7-682-548-04 SCREW +BVTT 3X8 (S) #11 7-685-648-79 SCREW (M3X12), TAPPING

The components identified by mark A or dotted line with mark. A are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque 1 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

> English 93B0563-1

Printed in Japan

SS-D170

SERVICE MANUAL

SPECIFICATIONS

Speaker system

3 way

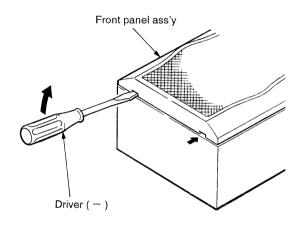
Mass Dimension Approx. 4.3 kg per speaker

Approx. 260 imes 450 imes 180 mm

(w/h/d, including projections)

1. DISASSEMBLY

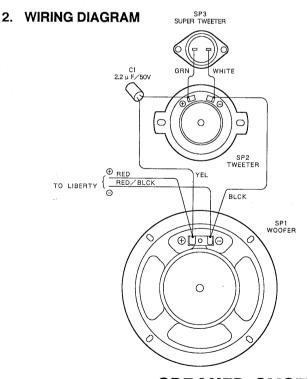
FRONT PANEL ASSEMBLY



US Model Canadian Model E Model Australian Model PX Model



This set is the speaker system in (LBT-D2220/D220CD/D259CD/A270CDM/A11/A11K/A17CD/A17CDM)



SPEAKER SYSTEM
SONY®

3. EXPLODED VIEW AND PARTS LIST

NOTE

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

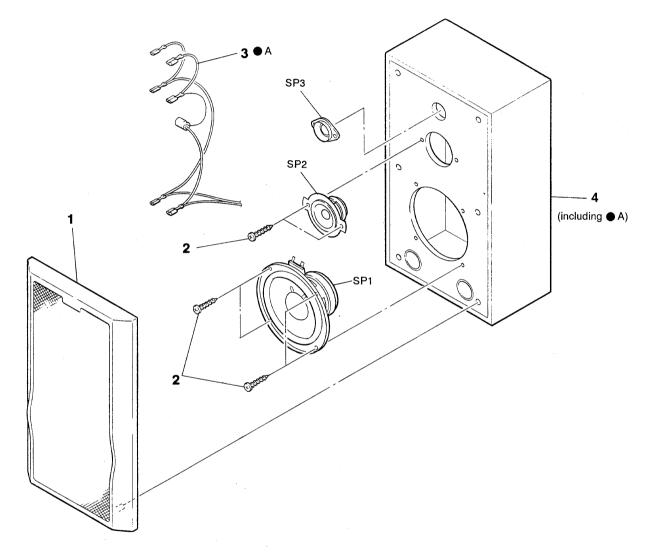
KNOB, BALANCE (WHITE) . . . (RED)

↑

Parts color

Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark
1 2 3 * 4 SP1 SP2 SP3	4-874-614-61 1-575-696-11 X-4943-135-1 1-544-451-11 1-544-452-21	PANEL ASSY, FRONT SCREW (M3.5x16) TAPPING CORD, SPEAKER (WITH (C)) CABINET ASSY, SPEAKER SPEAKER (16CM) (WOOFER) SPEAKER (6CM) (TWEETER) SPEAKER (2CM) (SUPER TWEETER)	•